APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Measurement of the Specific Volume of Melts in the System B_2O_3-SiO_2, by A. A. Leont'eva, 6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVII, 1943, pp 264-268.

SIA R-2174

Sc.

Aug 58

72,056

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Equation of State of Krichevskiy and Kazarnovskiy, by M. Temkin, 2 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVII, 1943, pp 269-270.

SLA R-2185

Sml

Aug 58

72,213

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Capacity of a Mercury Electrode in the Presence of Polyvalent Cations, by M. Vorsina and A. Frumkin, 18 pp.

RUSSIAN, per, Zhur Fiz Chem, Vol XVII, 1943, pp 295-310.

SLA R-2283

Scl

72,025

Aug 58

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Free Energy of Diffusion Double Layer, by A. Frumkin, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVII, No 5/6, pp 300-312. 1943

SLA R-2269

Sci

Aug 58

72,162

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Surface Tension of Solutions, by A. Zhurkhovitskiy, 5 pp.

RUSSIAN, Zur, Zhur Fiz Khim, Vol XVII, No 5/6, 1943, pp [illegible] 313-317.

SLA R-2295

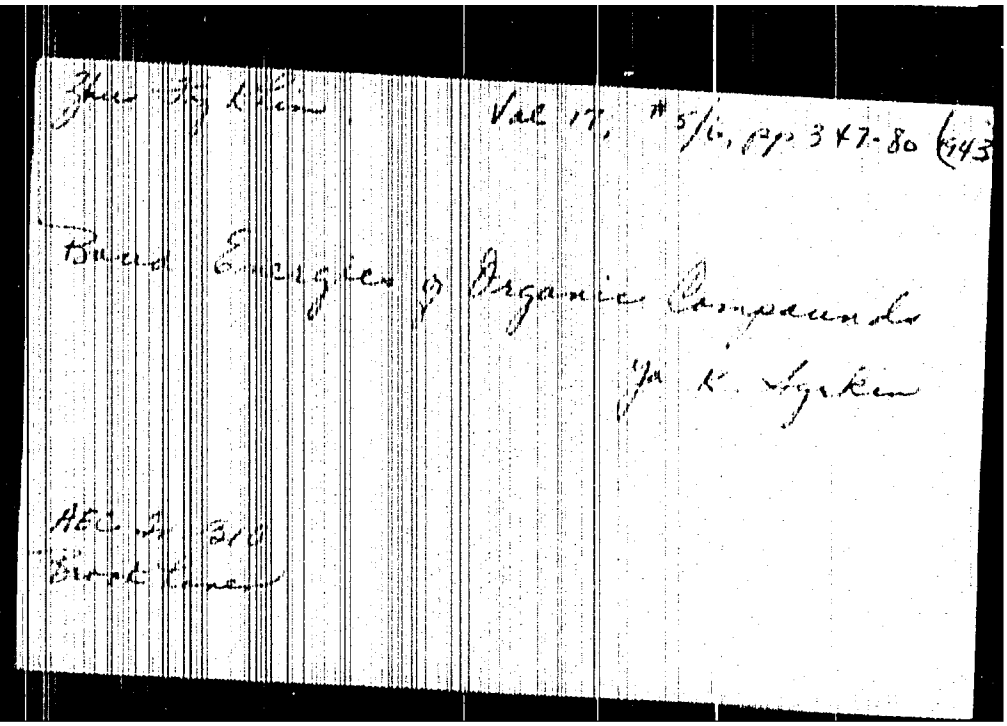
Sol

Aug 58

72,220

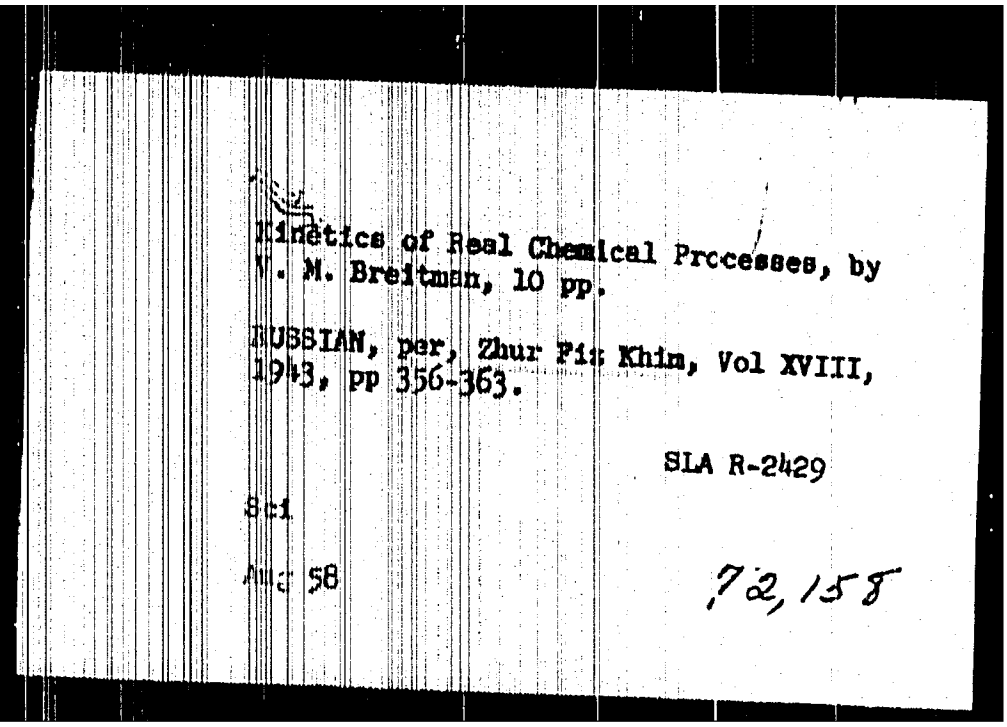
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Kinetics of Real Chemical Processes, by
M. M. Breitman, 10 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVIII,
1943, pp 356-363.

SLA R-2429

S-1

Aug 58

72,158

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Nutanson, G. L. and Kagan, M. Ya.
CATALYTIC ALKYLATION OF HYDROCARBONS IN THE GASEOUS PHASE. [1961] 11p. 26 refs.
Order from OTS or SLA $1.60 61-16918

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1943, v. 17, p. 351-391.

DESCRIPTORS: *Hydrocarbons, Gases, *Catalysis, Aluminum compounds, Silicates, Decomposition, Alkyl radicals, Benzenes, Ethylenes, Propenes, Toluene, Reaction kinetics

It was established that aromatic hydrocarbons can be alkylated and aliphatic-aromatics dealkylated in the gaseous phase over aluminosilicate catalysts. Mobility of the alkyl groups is brought about by these catalysts which makes double decomposition of the hydrocarbons possible. Considerations are presented pertaining to the possible mechanism of catalytic condensation of hydrocarbons. (Author)

61-16918

I. Nutanson, G. L.
II. Kagan, M. Ya.

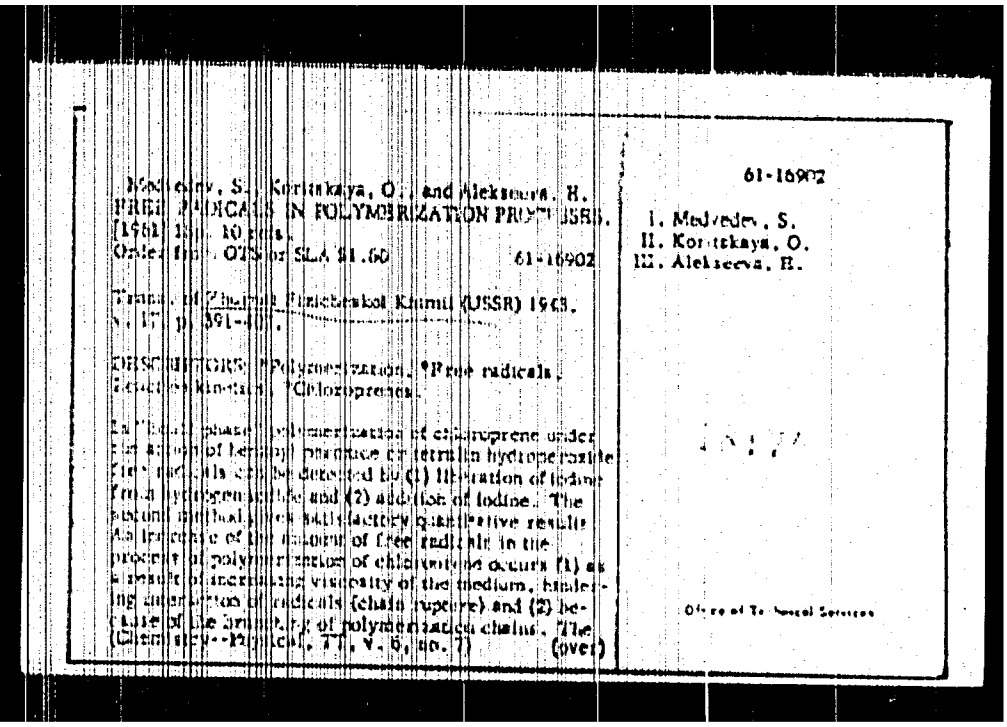
3465

(Chemical--Physical, TT, v. 6, no. 9)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Medvedev, S., Korotkaya, O., and Alekseeva, E.
FREE RADICALS IN POLYMERIZATION PROCESSES (USSR).
[1961] 10 p. illus.
Order from: OTS or SLA $1.60 61-16902

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1963.
v. 37, p. 591-[illegible].

DESCRIPTORS: *Polymerization, *Free radicals, Reaction kinetics, *Chloroprenes.

[illegible] phase polymerization of chloroprene under the action of benzoyl peroxide or tetralin hydroperoxide [illegible] can be detected by (1) titration of iodine from hydrogen iodide and (2) addition of iodine. The second method does not satisfactory quantitative results. As a result of the action of free radicals in the process of polymerization of chloroprene occurs (1) as a result of increasing viscosity of the medium, hindering diffusion of radicals (chain rupture) and (2) because of the [illegible] of polymerization chains. The (Chemistry--Physical, v. 6, no. 7) (over)

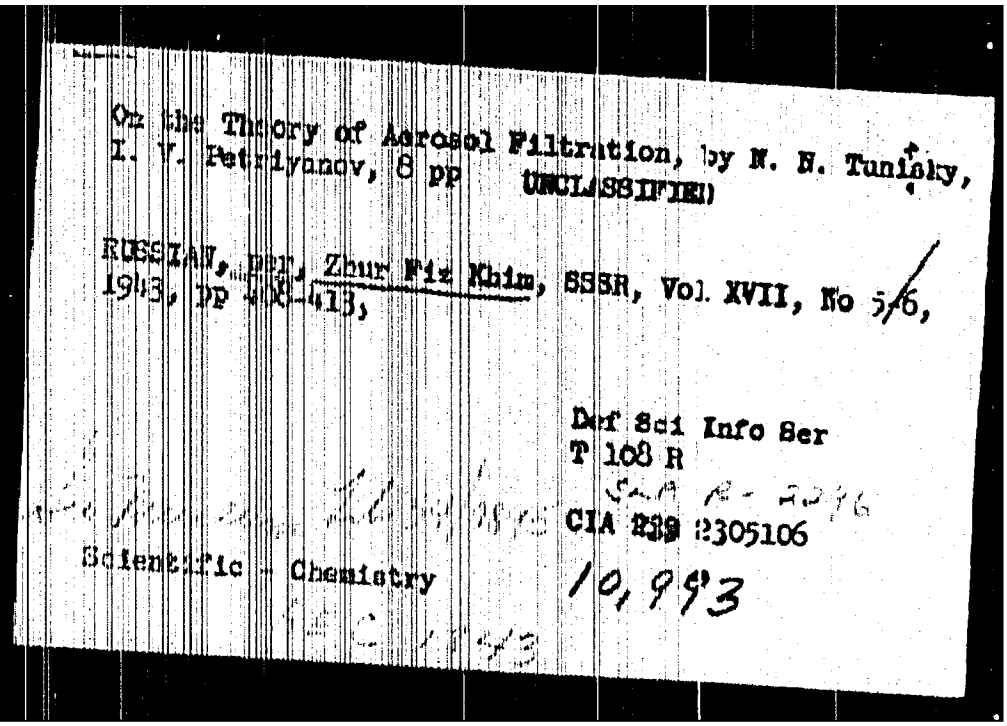
61-16902

I. Medvedev, S.
II. Korotkaya, O.
III. Alekseeva, E.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



On the Theory of Aerosol Filtration, by N. N. Tunitsky, I. V. Petrianov, 8 pp UNCLASSIFIED)

RUSSIAN, ppr, Zhur Fiz Khim, SSSR, Vol. XVII, No 5/6, 1943, pp 405-413,

Def Sci Info Ser
T 108 R

CIA RSS 2305106

Scientific - Chemistry

10,993

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Volatility of Gaseous Mixtures, by M. Temkin, 12 pp.

RUSSIAN, pur, Zhur Fiz Khim, Vol XVII, 1943, pp 414-423.

SLA R-2297

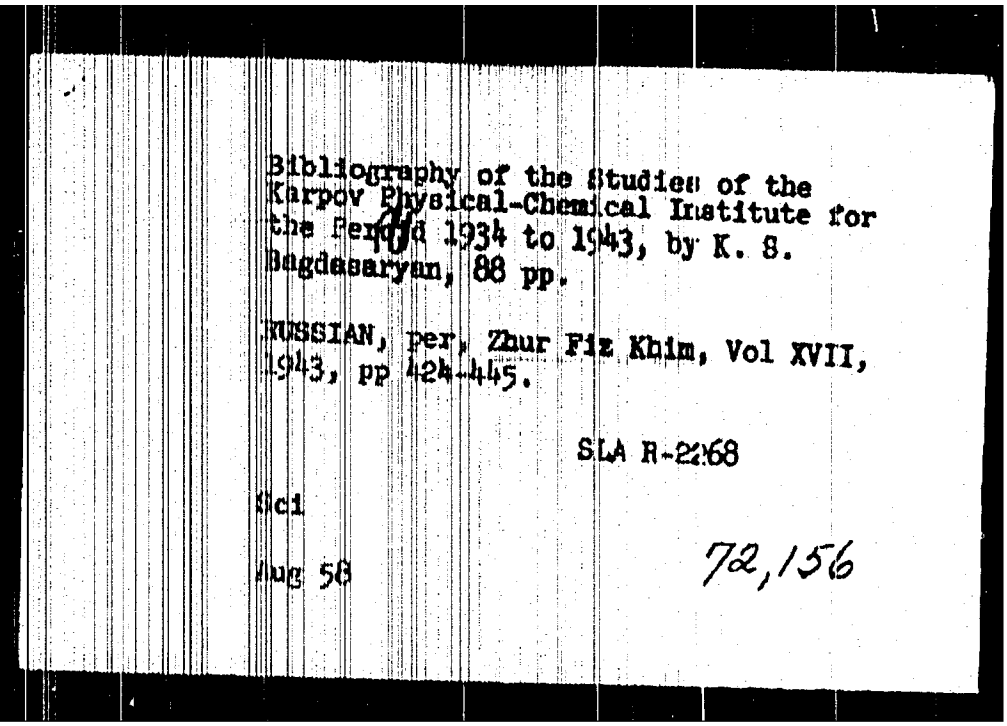
Sc:1

Aug 58

72,214

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Bibliography of the Studies of the Karpov Physical-Chemical Institute for the Period 1934 to 1943, by K. S. Bagdasaryan, 88 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVII, 1943, pp 424-445.

SLA R-2268

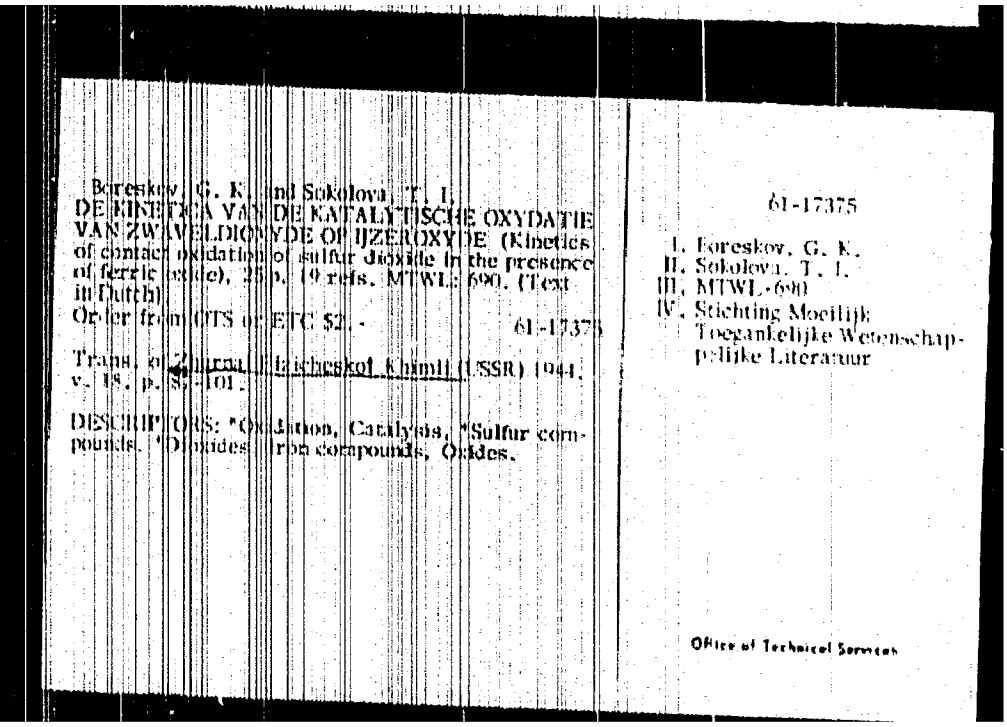
Uci

Aug 58

72,156

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Boreskov, G. K. and Sokolova, T. I.
DE KINETICA VAN DE KATALYTISCHE OXYDATIE VAN ZWAVELDIOXYDE OP IJZEROXYDE (Kinetics of contact oxidation of sulfur dioxide in the presence of ferric oxide), 25 p. 19 refs. MTWL: 690. (Text in Dutch)
Order from OTS or ETC $2.-

61-17375

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1944, v. 18, p. 89-101.

DESCRIPTORS: *Oxidation, Catalysis, *Sulfur compounds, *Dioxides, Iron compounds, Oxides.

61-17375

I. Boreskov, G. K.
II. Sokolova, T. I.
III. MTWL-690
IV. Stichting Mocilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Mechanism of Oxidation of Sulfur Monoxide, by
E. Kondrat'eva, V. Kondrat'ev.

RUSSIAN, no per, Zhur Fiz Khim, Vol XVIII, No 3/4,
1944, pp 102-109.

Assoc Tech Sv RJ-211
$12.75

Scientific - Chemistry
CTS 73/Oct 1955

27,478

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

17/60 (SP-1065)

Combustion of Carbon Monoxide-Oxygen Mixtures in Quartz Vessels, by V. N. Kondrat'yev, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVIII, No 3/4, 1944, pp 110-114.

JPRS 4017

Sci - Chem

Sep 60

126, 185

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Thermodynamic Properties of N at Pressures form 1000 to 6000 Atmospheres, by P. E. Bol shakov, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVIII, 1944, pp 121-130.

SLA R-2432

Sci

Aug 58

72,048

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Dielectric Permittivity and Dipole Moments of Some Organic Substances, by V. Yu. Kramil'nikov, 22 p.

RCSB/LAD, pub, Zhur Fiz Khim, 1944, Vol XVIII, No 3, pp 174-182.

NRCC TT-794

Sci
Feb 60
Vol 2, No 5

107052

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

True Solutions, by I. R. Krichevskiy, 9 pp.

RUSSIAN, per: Zhur Fiz Khim, Vol XVIII, 1944, pp 187-193.

SLA R-2433

Sc1

Aug 58

72, 189

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Vapor Pressure of Solid Acetylene, by P. Z. Bulyubo.

RUSSIAN, per, Zhur Fiz Khim, Vol XVIII, No 3-6, 1944, pp 253-257.

Assoc Tech Serv NJ-1451
" " " 13K15R

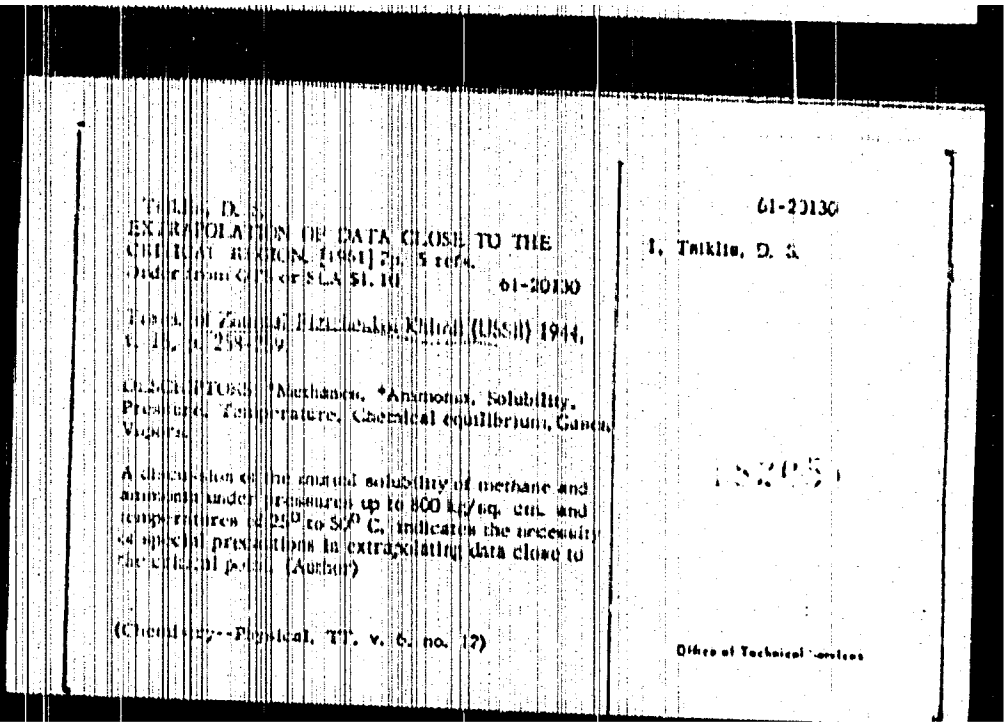
Eel - Chem

Apr 59

85,324

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Tsiklis, D. S.
EXTRAPOLATION OF DATA CLOSE TO THE CRITICAL REGION. [1961] 7p. 9 refs.
Order from CFSTI as PB LA $1.10 61-20130

Zhurnal Fizicheskoi Khimii (USSR) 1944, v. 18, p. 259-69

UNCLASSIFIED Methanes, *Ammonia, Solubility, Pressure, Temperature, Chemical equilibrium, Gases, Vapors.

A discussion of the mutual solubility of methane and ammonia under pressures up to 800 kg/sq. cm. and temperatures from 250 to 500° C. indicates the necessity of special precautions in extrapolating data close to the critical point. (Author)

(Chemistry--Physical, TT. v. 6, no. 12)

61-20130

I. Tsiklis, D. S.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

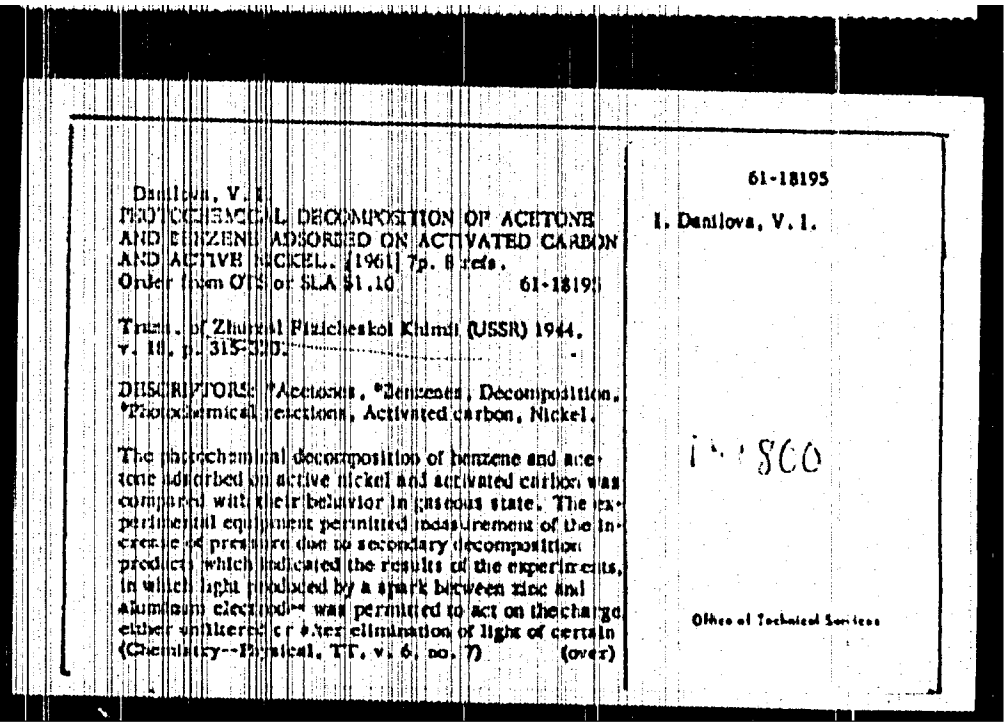
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Over-Voltage at a Mercury Cathode in Concentrated Solutions, by Z. A. Iofa and A. N. Frumkin,
RUSSIAN, pam, Zhurnal Fizicheskoi Khimiy, Vol XVIII, No 7-8, 1944, pp 268-282.
[illegible]
(On Loan or Purchase)

Sci-Chem
Apr 47 524,446

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Danilova, V. I.
PHOTOCHEMICAL DECOMPOSITION OF ACETONE AND BENZENE ADSORBED ON ACTIVATED CARBON AND ACTIVE NICKEL. [1961] 7p. 8 refs.
Order from OTS or SLA $1.10 61-18195

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1944. v. 18, p. 315-320.

DESCRIPTORS: *Acetones, *Benzenes, Decomposition, *Photochemical reactions, Activated carbon, Nickel.

The photochemical decomposition of benzene and acetone adsorbed on active nickel and activated carbon was compared with their behavior in gaseous state. The experimental equipment permitted measurement of the increase of pressure due to secondary decomposition products which indicated the results of the experiments, in which light produced by a spark between zinc and aluminum electrodes was permitted to act on the charge either unfiltered or after elimination of light of certain (Chemistry--Physical, TT, v. 6, no. 7) (over)

61-18195

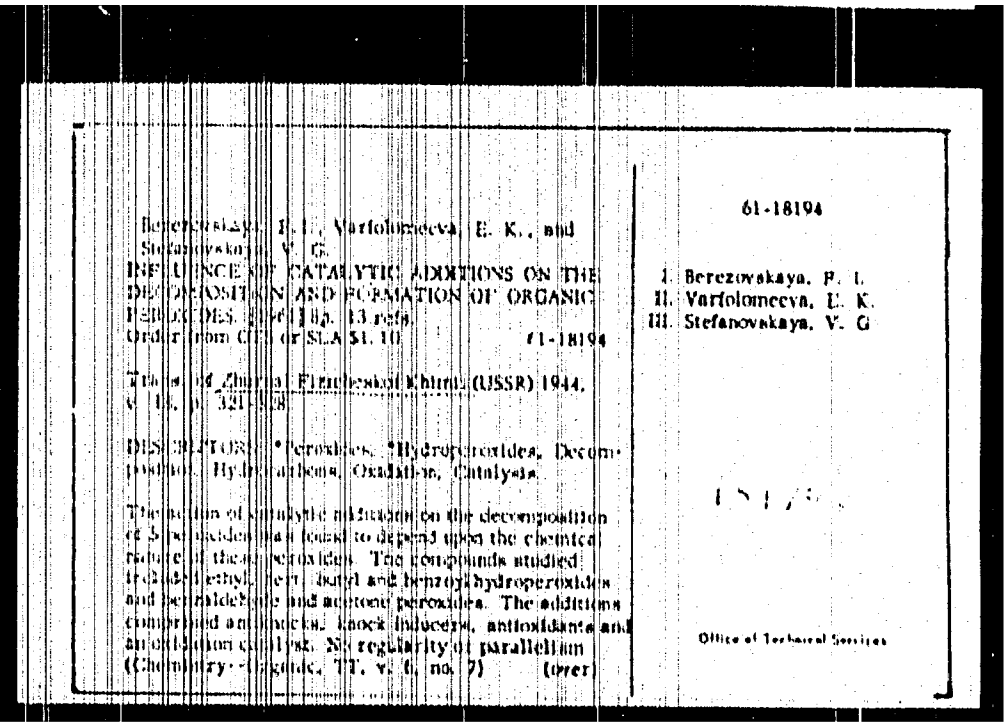
I. Danilova, V. I.

I - 5CO

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Berezovskaya, F. I., Varfolomeeva, E. K., and Stefanovskaya, V. G.

INFLUENCE OF CATALYTIC ADDITIONS ON THE DECOMPOSITION AND FORMATION OF ORGANIC PEROXIDES. [8] pp. 13 refs.

Order from CIT or SLA $1.10 61-18194

Title of Zhurnal Fizicheskoi Khimii (USSR) 1944, v. 18, p. 321-[28]

DESCRIPTORS: *Peroxides, *Hydroperoxides, Decomposition, Hydrocarbons, Oxidation, Catalysis.

The action of catalytic additions on the decomposition of peroxides was found to depend upon the chemical nature of these peroxides. The compounds studied included ethyl, tert. butyl and benzoylhydroperoxides and benzaldehyde and acetone peroxides. The additions comprised antioxidants, knock inducers, antioxidants and an oxidation catalyst. No regularity or parallelism

(Chemistry-Digest, IT, v. 6, no. 7) (over)

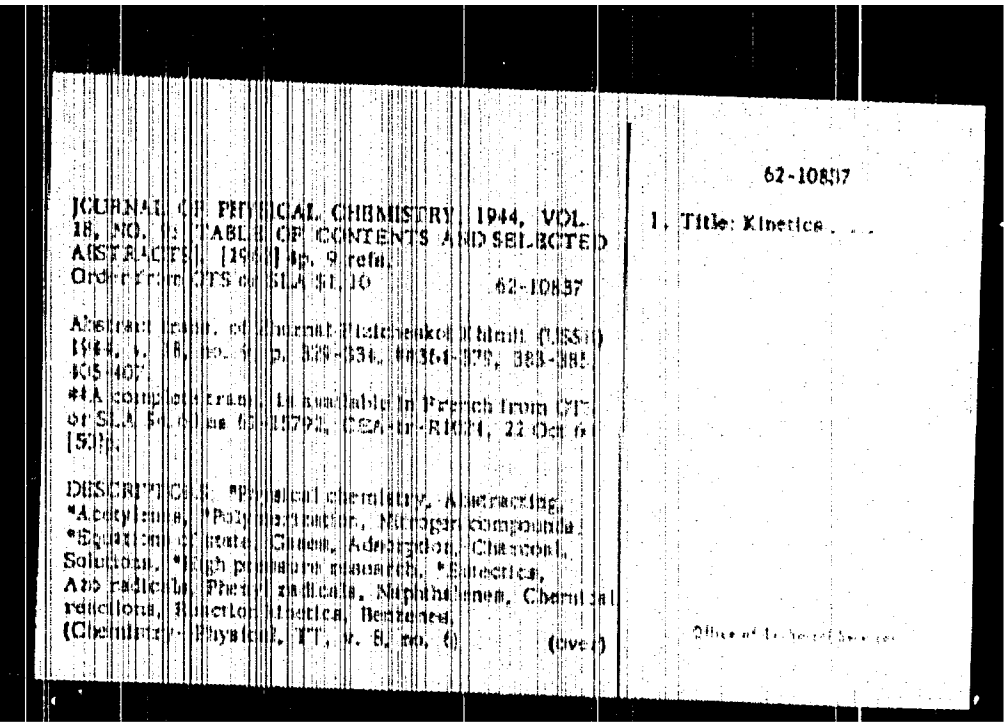
61-18194

I. Berezovskaya, F. I.
II. Varfolomeeva, E. K.
III. Stefanovskaya, V. G

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



62-10837

1. Title: Kinetics . . .

JOURNAL OF PHYSICAL CHEMISTRY 1944, VOL. 18, NO. [illegible] TABLE OF CONTENTS AND SELECTED ABSTRACTS [19[illegible] 4p. 9 refs.
Order from: CTS of SLA $1.10 62-10837

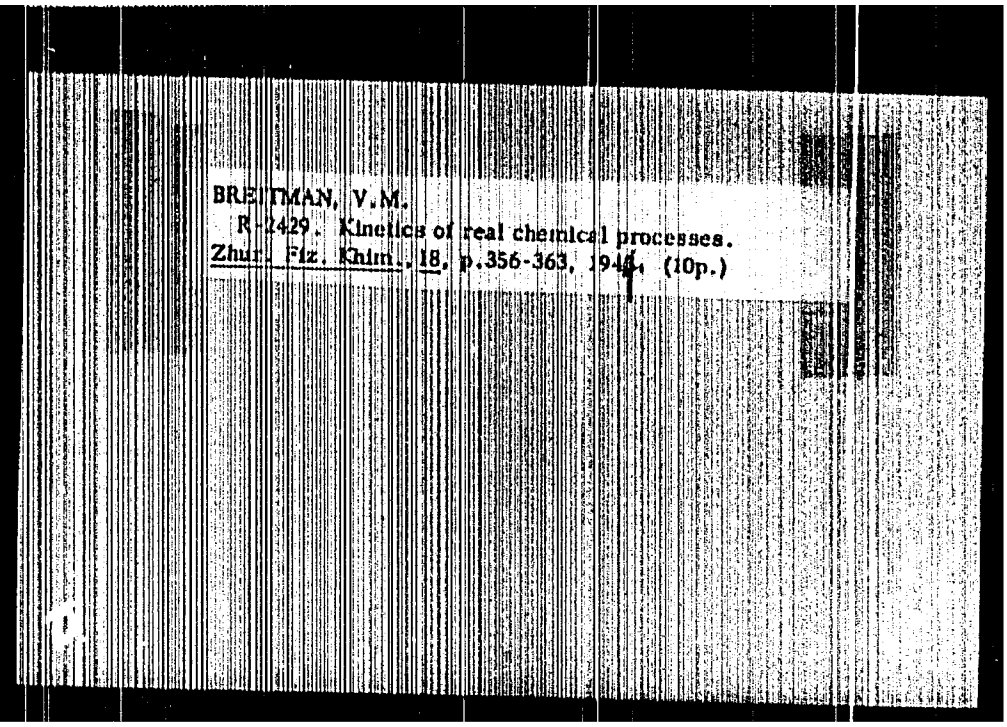
Abstract from: Zhurnal Fizicheskoi Khimii (USSR) 1944, v. 18, no. [illegible] p. 329-334, 0036-0279, 383-388
405 407
#A complete trans. is available in French from CTS or SLA [illegible] 1792, CSA-Tr-R1021, 22 Oct 6[illegible] [50]p.

DESCRIPTORS: *Physical chemistry, Abstracting, *Acetylenes, *Polymerization, Nitrogen compounds, *Equations of state, Gases, Adsorption, Charcoal, Solutions, *High pressure research, *Kinetics, Absorption, Phenylacetylene, Naphthalenes, Chemical reactions, Reaction kinetics, Benzenes, (Chemistry - Physical), TT, v. 8, no. 6 (over)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

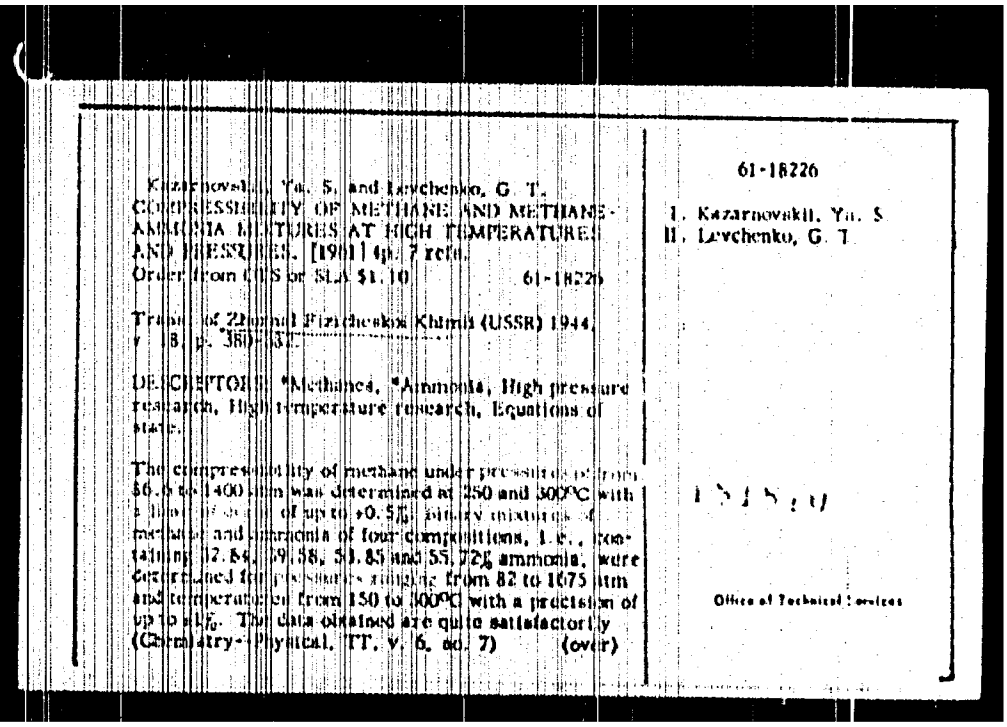
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



BREITMAN, V.M.
R-2429. Kinetics of real chemical processes.
Zhur. Fiz. Khim., 18, p.356-363, 1944. (10p.)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Kazarnovskii, Ya. S. and Levchenko, G. T.
COMPRESSIBILITY OF METHANE AND METHANE-AMMONIA MIXTURES AT HIGH TEMPERATURES AND PRESSURES. [1961] 6p. 7 refs.
Order from CFS or SLA $1.10 61-18226

Translation of Zhurnal Fizicheskoi Khimii (USSR) 1944, v. 18, p. 381)-32.

DESCRIPTORS: *Methanes, *Ammonia, High pressure research, High temperature research, Equations of state.

The compressibility of methane under pressures of from 56.5 to 1400 atm was determined at 250 and 300°C with a [illegible] of up to ±0.5%; similar mixtures of methane and ammonia of four compositions, i.e., containing 12.84, 29.58, 51.85 and 55.72% ammonia, were determined for pressures ranging from 82 to 1075 atm and temperatures from 150 to 300°C with a precision of up to ±1%. The data obtained are quite satisfactorily
(Chemistry-Physical, TT, v. 6, no. 7) (over)

61-18226

I. Kazarnovskii, Ya. S
II. Levchenko, G. T

[illegible]

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Mechanism of the Oxidation of NO, by M. S. Furman, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVIII, 1944, pp 386-388.

SLA R-2430

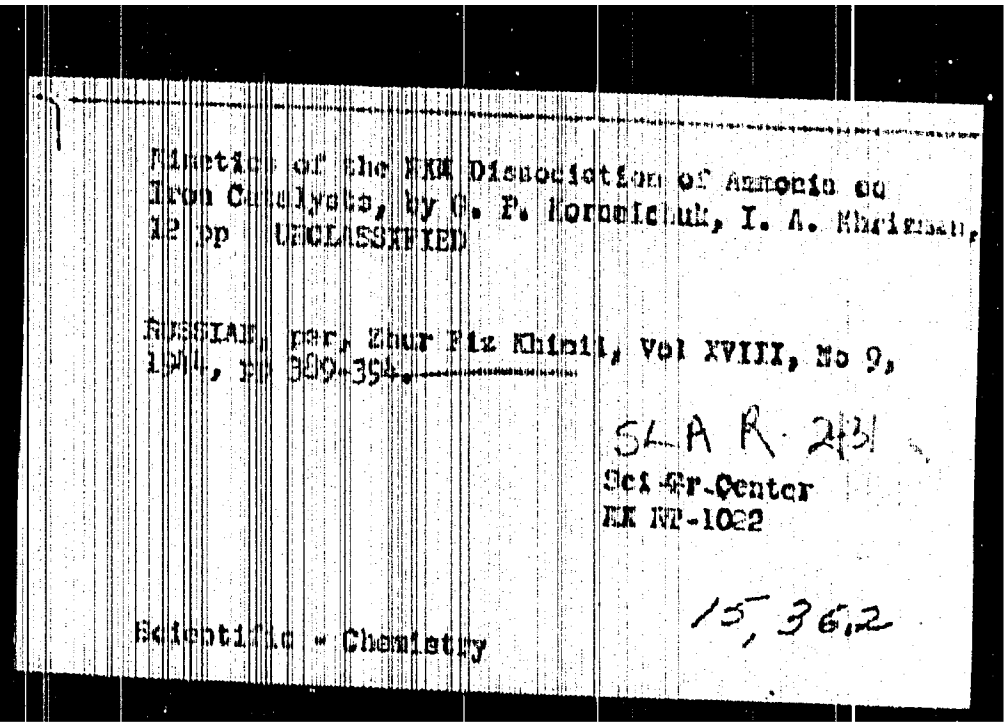
Sci

Aug 58

72,127

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Kinetics of the NXM Dissociation of Ammonia on Iron Catalysts, by G. P. Korneichuk, I. A. Khariman, 12 pp UNCLASSIFIED

RUSSIAN, per. Zhur Fiz Khimii, Vol XVIII, No 9, 1944, pp 389-394.

SLA R 23
Sci-Fr-Center
EK NP-1022

15,362

Scientific - Chemistry

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Levchenko, G. T.
THERMODYNAMIC PROPERTIES OF COMPRESSED METHANE [Termodinamicheskie Svoistva Szhatogo Metana] [19]. 9p. 16 refs.
Order from CTS or SLA $1.10 61-18227

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1944, v. 18 (no. 10) p. 453-465.
Another translation is available from SLA as RT-1021.

DESCRIPTORS: *Methanes, *Thermochemistry, High pressure research, Equations of state.

The fugacity, heat capacities at constant pressure and volume, the heat content, entropy, free energy, maximum work and internal energy were calculated for methane within the temperature interval of from -70 to +200°C and pressures of from 10 to 1,000 atm. Mollier diagrams were constructed for methane. The values calculated by the author were correlated with calculated and experimental data reported in the literature. (Author)

61-18227

I. Levchenko, G. T.

Office of Technical Services

(Chemistry--Physical, TT, v. 6, no. 7)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Cathodic Behavior of Iron in Neutral Solutions, by A. I. Krasil'shchikov

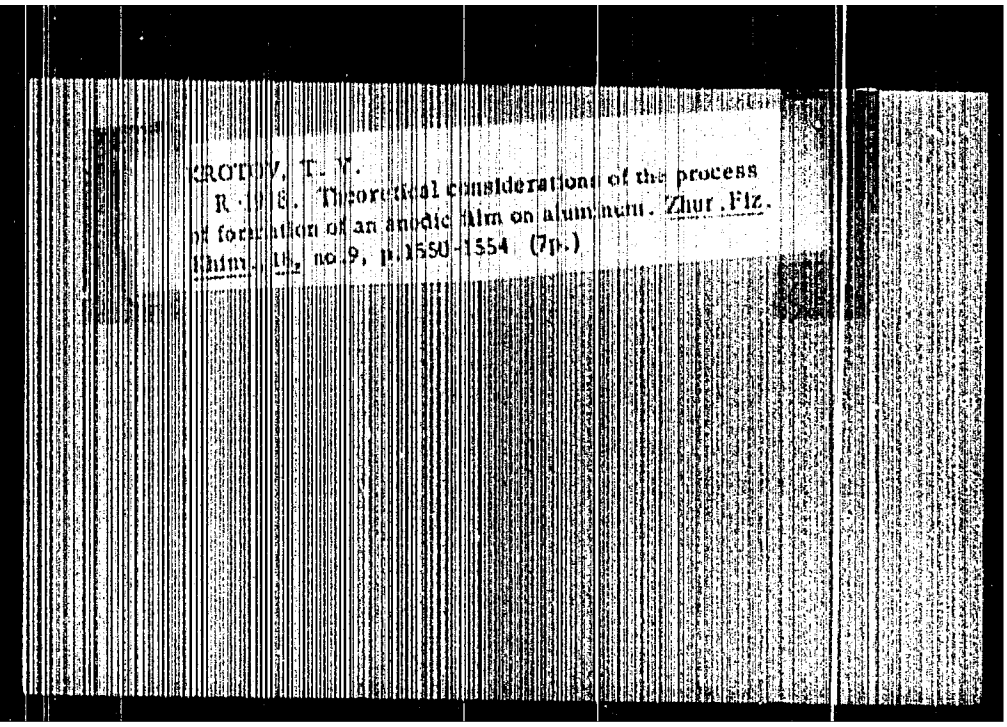
RUSSIAN, per, Zhur Fiz Khim, Vol XVIII, 1944, pp 537-546.

AEC Tr 1112

Scientific - Physics

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



GROTOV, T. V.

R 1 8. Theoretical considerations of the process of formation of an anodic film on aluminum. Zhur. Fiz. Khim., 15, no.9, p.1550-1554 (7p.)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Zhur Fiz Khim, XIX, 15–47. (1945)

Oxidation of Hydrogen Sulfide from the Point of View of the Kinetics of the Intermediate Reaction Products

N. M. Emanuel (Inst of Chem Physics, USSR, Acad Sci)

(Wilson Dam 552)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Zhur Fiz Khim XIX, 48-71 (1945)

The Principle of Ensemble and Aggravation in Catalysis. I. The Method of Fluctuation Analysis of Active Centers C Catalysis in the Range of Subcrystalline Structures.

N. I. Kobozev, L. A. Nikolayev, I. A. Zubovich, and Yu. M. Gol'dfel'd (Lab of Catalysis and Gas Electrochem, Moscow State (Lomonosov) University)

(Wilson Cam 553)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Zhur Fiz Khim XIX, 72-82 (1945)

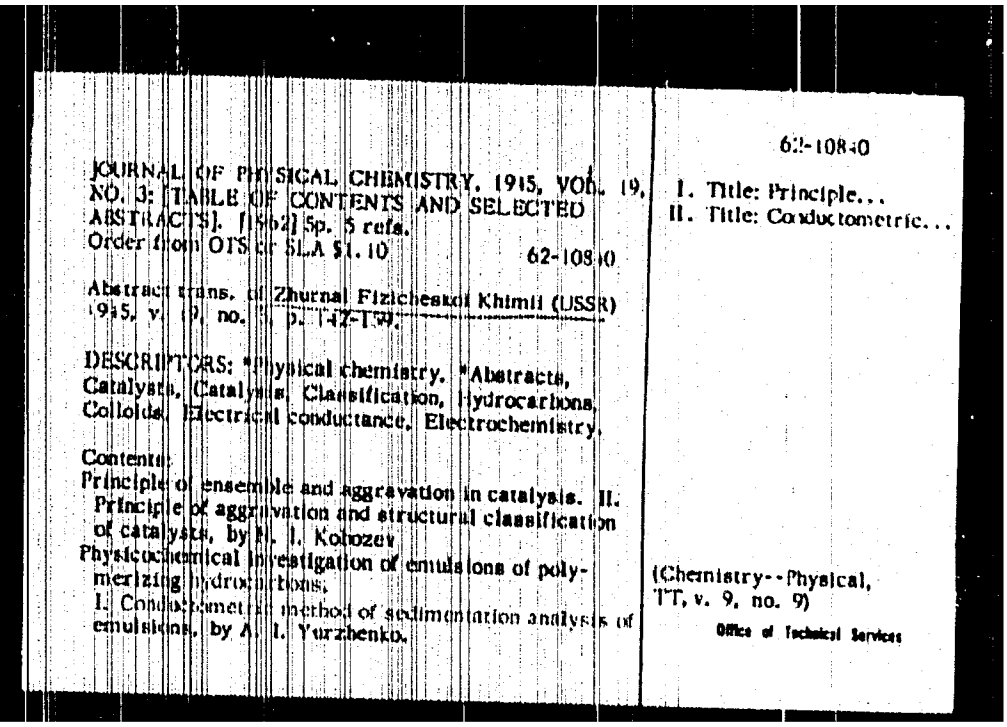
Partial Pressures in Real Gas Mixtures

M. Temkin (Karpov Physical Chem Inst)

(Written Jan 45)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



JOURNAL OF PHYSICAL CHEMISTRY, 1945, VOL. 19, NO. 3: [TABLE OF CONTENTS AND SELECTED ABSTRACTS]. [1962] 5p. 5 refs.
Order from OTS or SLA $1.10 62-10840

Abstract trans. of Zhurnal Fizicheskoi Khimii (USSR) 1945, v. 19, no. [illegible], p. 142-150.

DESCRIPTORS: *Physical chemistry, *Abstracts, Catalysts, Catalysis, Classification, Hydrocarbons, Colloids, Electrical conductance, Electrochemistry.

Contents:
Principle of ensemble and aggravation in catalysis. II. Principle of aggravation and structural classification of catalysts, by M. I. Kobozev
Physicochemical investigation of emulsions of polymerizing hydrocarbons.
I. Conductometric method of sedimentation analysis of emulsions, by A. I. Yurzhenko.

62-10840

I. Title: Principle...
II. Title: Conductometric...

(Chemistry--Physical, TT, v. 9, no. 9)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

A New Type of Chemical Compounds, "Cyanyls", by D. F. Cornish, 6 pp.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XIX, No 3, 1945, pp 167, 168.

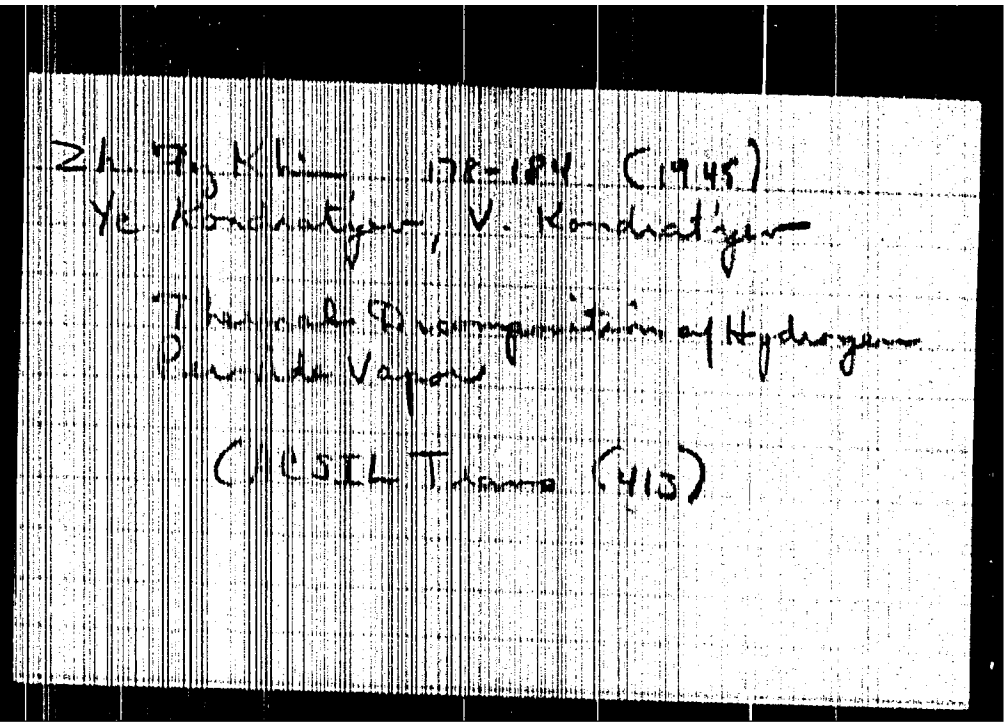
Sci Tr Ctr RT-3485

Scientific - Chemistry 32,873

May 56 CTB/dcx

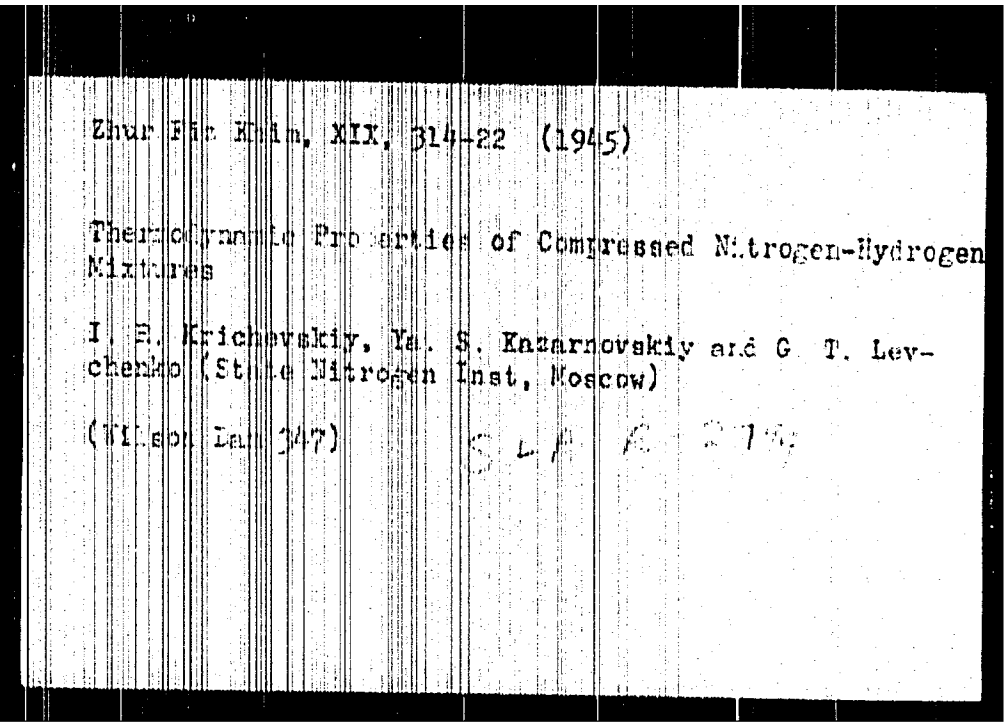
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Zhur Fiz Khim, XIX, 314-22 (1945)

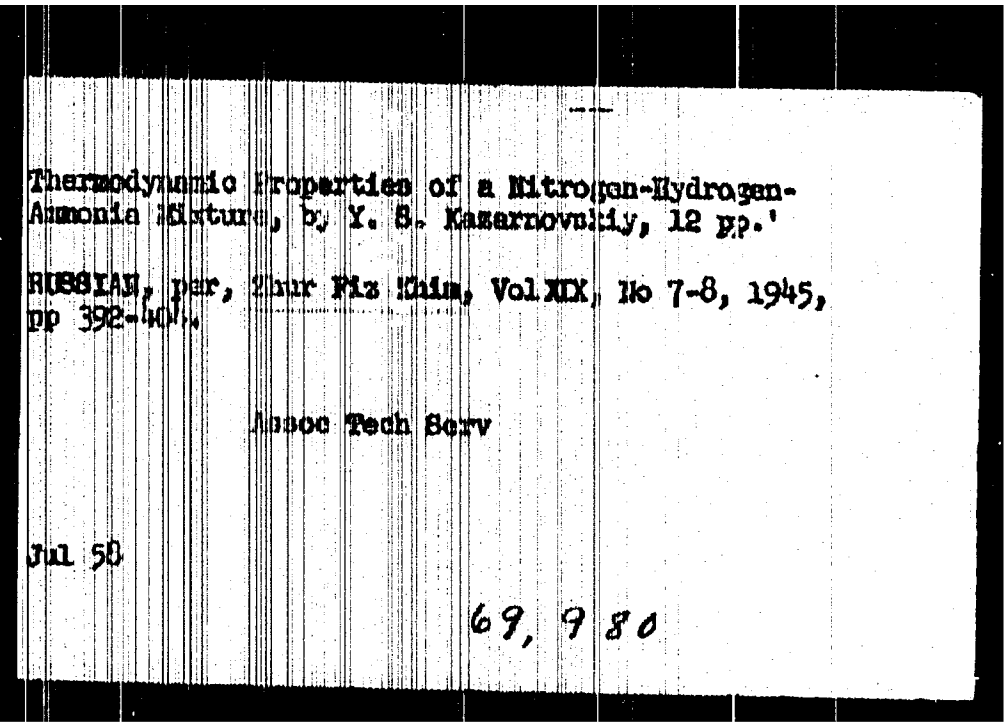
Thermodynamic Properties of Compressed Nitrogen-Hydrogen Mixtures

I. R. Krichevskiy, Ya. S. Kazarnovskiy and G. T. Levchenko (State Nitrogen Inst, Moscow)

(Wilson Lab 347)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Thermodynamic Properties of a Nitrogen-Hydrogen-Ammonia Mixture, by Y. B. Kazarnovskiy, 12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIX, No 7-8, 1945, pp 392-404.

Amoco Tech Serv

Jul 58

69, 980

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Dynamics of Gas Formation in a Layer of Carbon, by Kh. I. Khudaverdov, 24 pp.

RUSSIAN, no pub, Zhur Fiz Khim, Vol XIX, No 9, 1945.

CIA/FDD X 2085

35,646

Sci - Physics
- Chemistry
Jun 56 CDG/dmx

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Discrete Structure of Charge in a Double Layer,k
By B. V. Ershler, 24 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 7, 1945,
pp 679-682. 5053458

ABC NP Tr-869

Sci - Phys, Chem
May 62

194,763

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

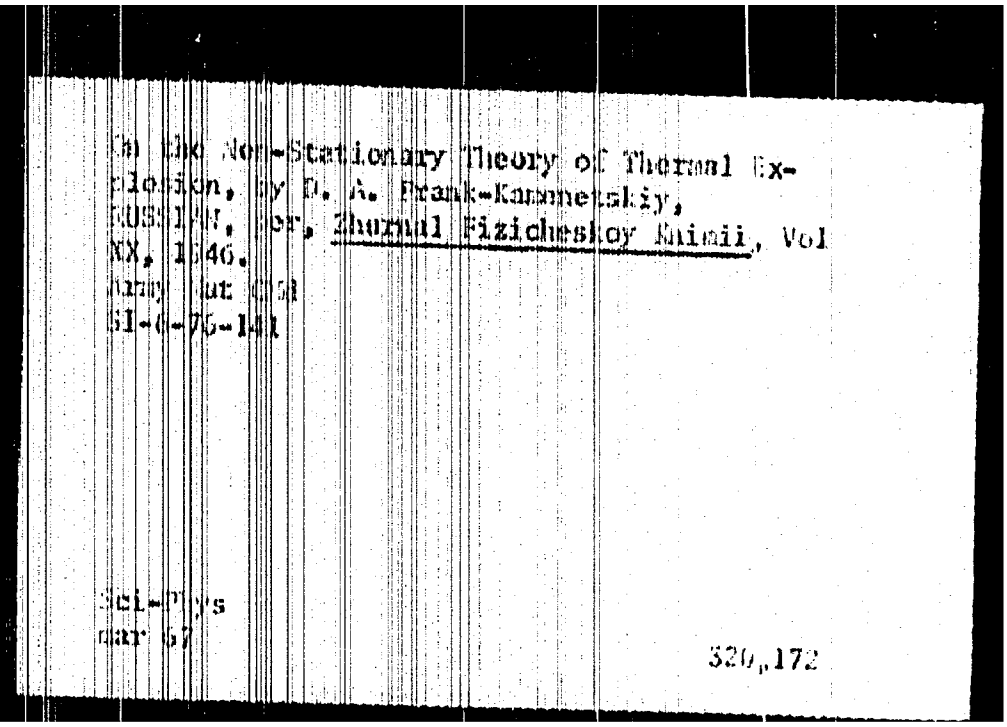
The Topological (Dynadic) Analysis of Molecular Crystals, by A. I. Kitaigorodskii. RUSSIAN. per. Zh. Fiz. Khim, Vol 19, No 10/11, 1945, pp 523-528. NLL 548.4F (11825)

Sci - Chem
Sept. 67

340,358

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



On the Non-Stationary Theory of Thermal Explosion, by D. A. Frank-Kamenetskiy, [illegible], Zhurnal Fizicheskoy Khimii, Vol XX, 1946.

[illegible] Jul 52

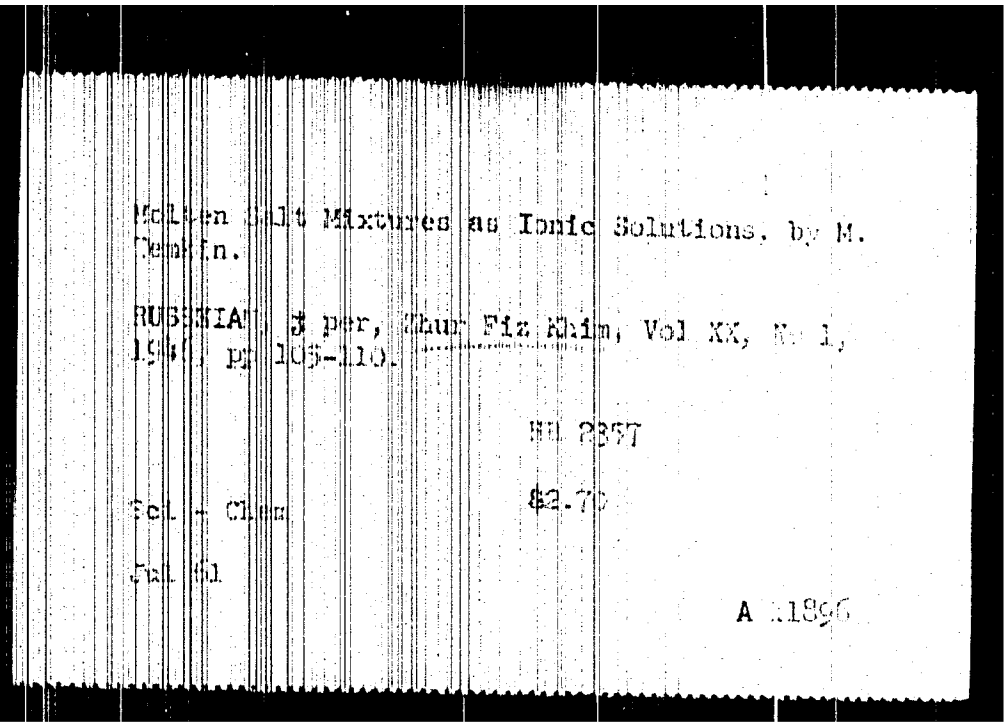
51-4-76-14

Sci-Phys
Mar 52

320.172

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Molten Salt Mixtures as Ionic Solutions, by M. Temkin.

RUSSIAN # per, Zhur Fiz Khim, Vol XX, No 1, 1946, pp 105-110.

HU 2357

Sci - Chem

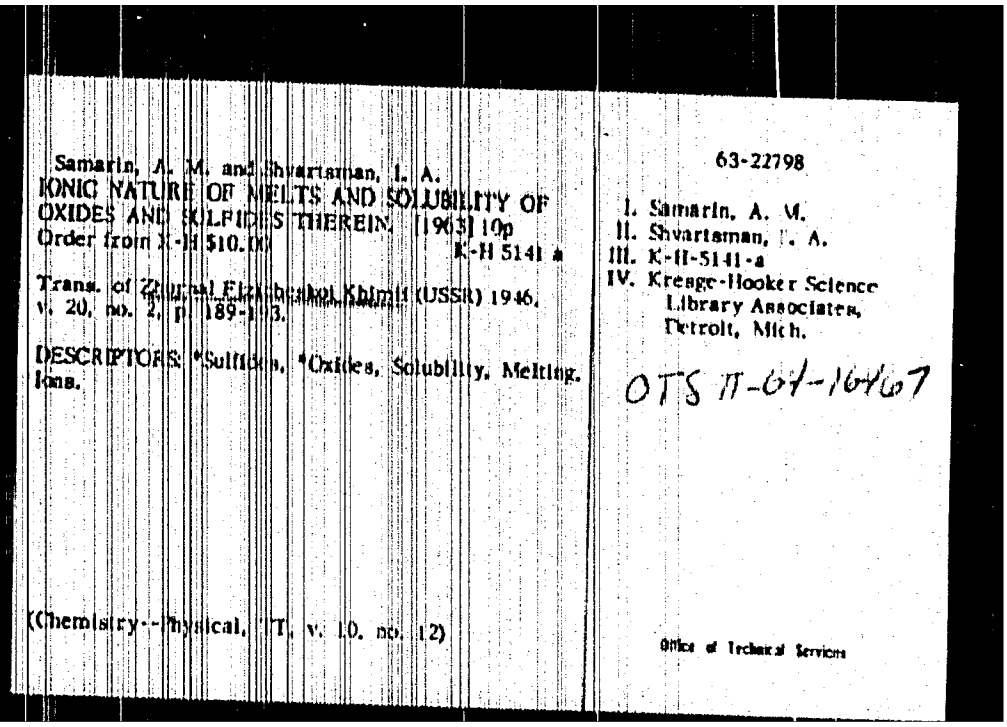
$2.70

Jul 61

A 1896

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Samarin, A. M. and Shvartsman, L. A.
IONIC NATURE OF MELTS AND SOLUBILITY OF OXIDES AND SULFIDES THEREIN. [1963] 10p
Order from K-H $10.00 K-H 5141 a

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946, v. 20, no. 2, p. 189-[illegible]3.

DESCRIPTORS: *Sulfides, *Oxides, Solubility, Melting. Ions.

(Chemistry--Physical, TT, v. 10, no. 12)

63-22798

I. Samarin, A. M.
II. Shvartsman, L. A.
III. K-H-5141-a
IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

OTS PT-64-16467

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

On Absolute Rates of Dissolving, by N. Ya. Luben, D. A. Frank-Kamenetzkiy, 15 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 3, 1946, pp 225-236.

AERE 473
Sci Mu Lib Tr 55/0715

54,353

Scientific - Physics

Jun 55 CM

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

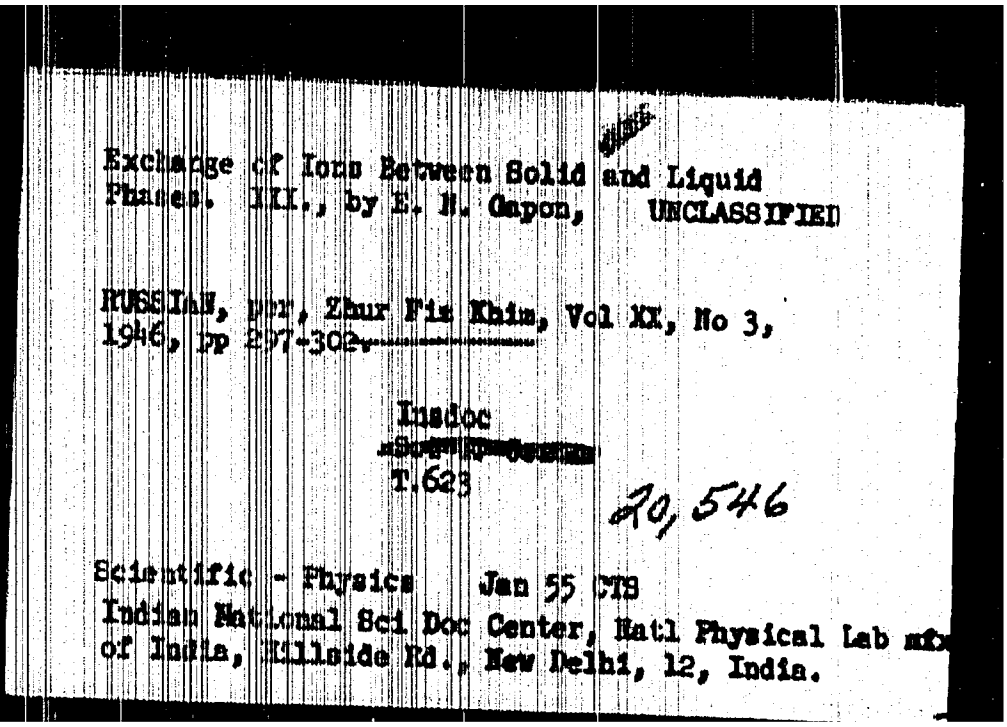
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Photogalvanic Processes on a Gold Electrode,
by V. I. Veselovskii.
RUSSIAN, per. Zh. Fiz. Khim, Vol 20, No 3,
1946, pp 269-296.
NLL 5828.4F (11823)

Sci - Chem
Sept. 67 340,144

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Exchange of Ions Between Solid and Liquid Phases. XIX., by E. N. Gapon, UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 3, 1946, pp 297-302.

Insdoc
T.623

20,546

Scientific - Physics Jan 55 CTS
Indian National Sci Doc Center, Natl Physical Lab of India, Hillside Rd., New Delhi, 12, India.

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Dielectric Properties and Electrostriction of Solutions of Electrolytes, by O. K. Davtyan. RUSSIAN, per. Zh. Fiz. Khim, Vol 20, No 3, 1946, pp 315-324. NLL 5628.4F (11820)

Sci - Chem

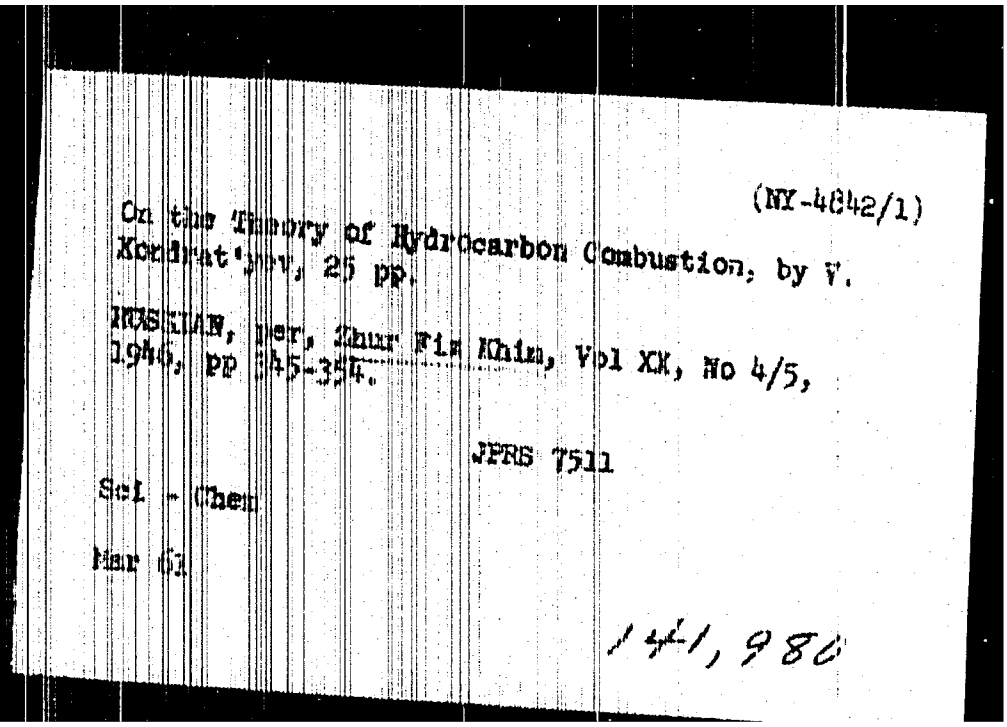
Agr. 57

Dept

338,650

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



(NY-4842/1)

On the Theory of Hydrocarbon Combustion, by V. Kondrat'yev, 25 pp.

KONDRAT'YEV, Ber, Zhur Fiz Khim, Vol XX, No 4/5, 1946, pp 345-354.

JPRS 7511

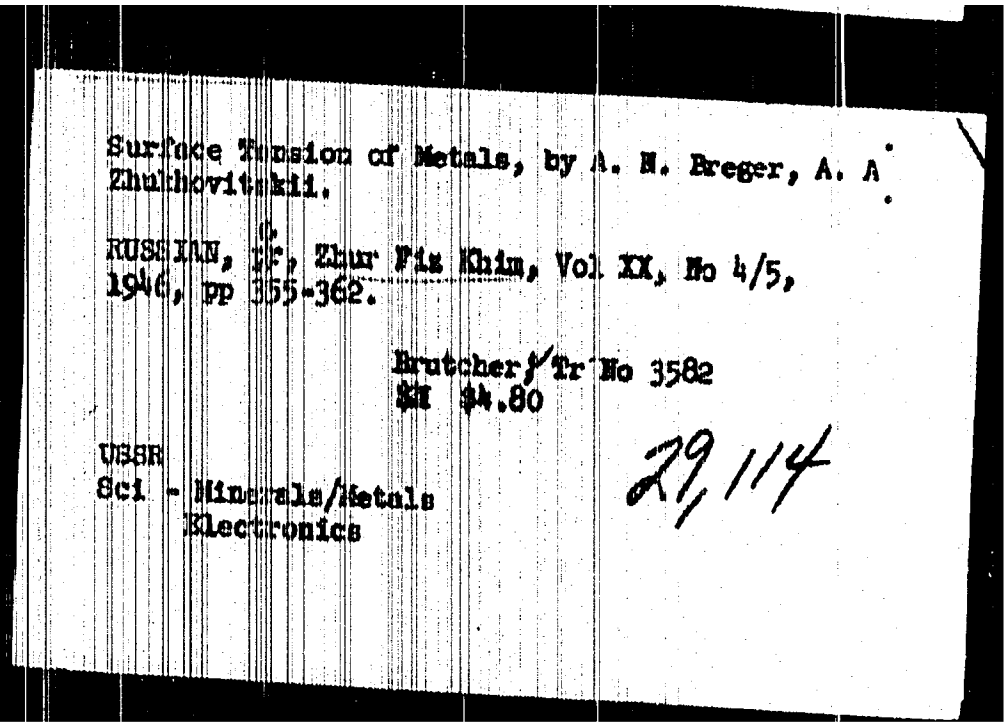
Sci - Chem

Mar 60

141,980

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Surface Tension of Metals, by A. N. Breger, A. A. Zhukhovitskii.

RUSSIAN, pp, Zhur Fiz Khim, Vol XX, No 4/5, 1946, pp 355-362.

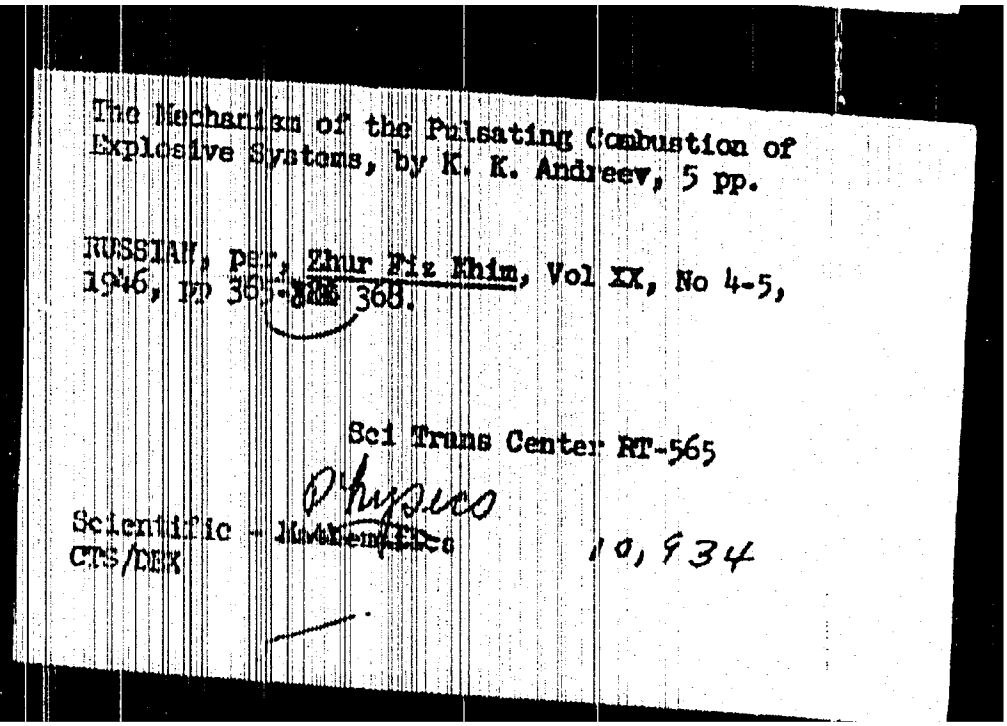
Brutcher Tr No 3582
$4.80

29,114

USSR
Sci - Minerals/Metals
Electronics

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



The Mechanism of the Pulsating Combustion of Explosive Systems, by K. K. Andreev, 5 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XX, No 4-5, 1946, pp 365-368.

Sci Trans Center RT-565

Physics

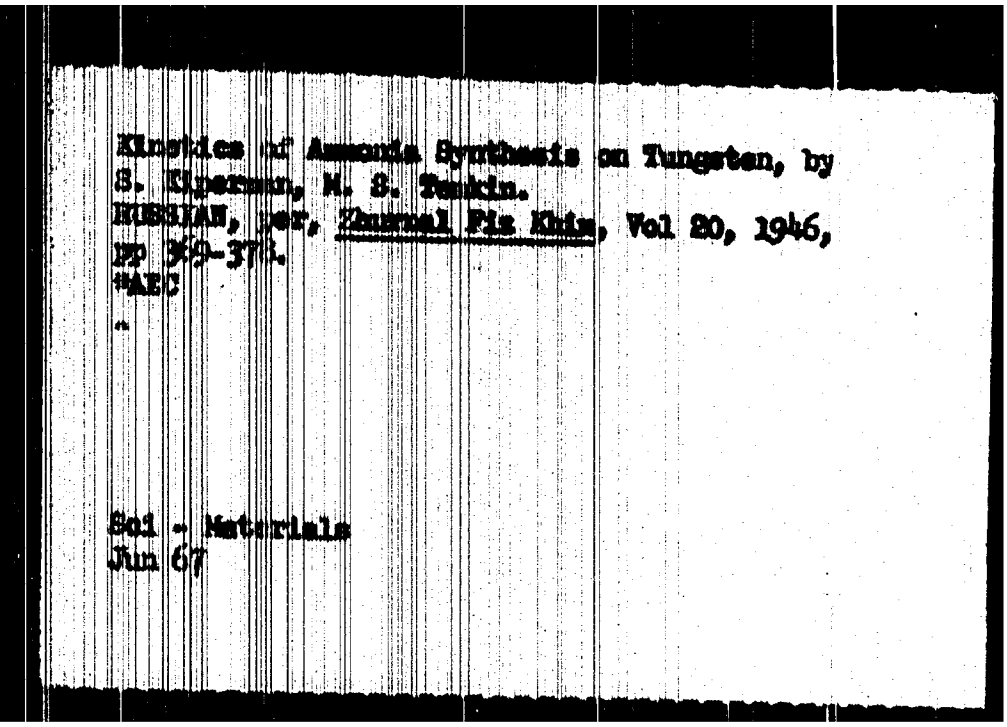
Scientific - Chemistry

CTS/DEK

10,934

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Kinetics of Ammonia Synthesis on Tungsten, by
S. Kiperman, M. I. Temkin.
RUSSIAN, jor, Zhurnal Fiz Khim, Vol 20, 1946,
pp 349-371.
*AEC
*

Sol - Materials
Jun 67

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

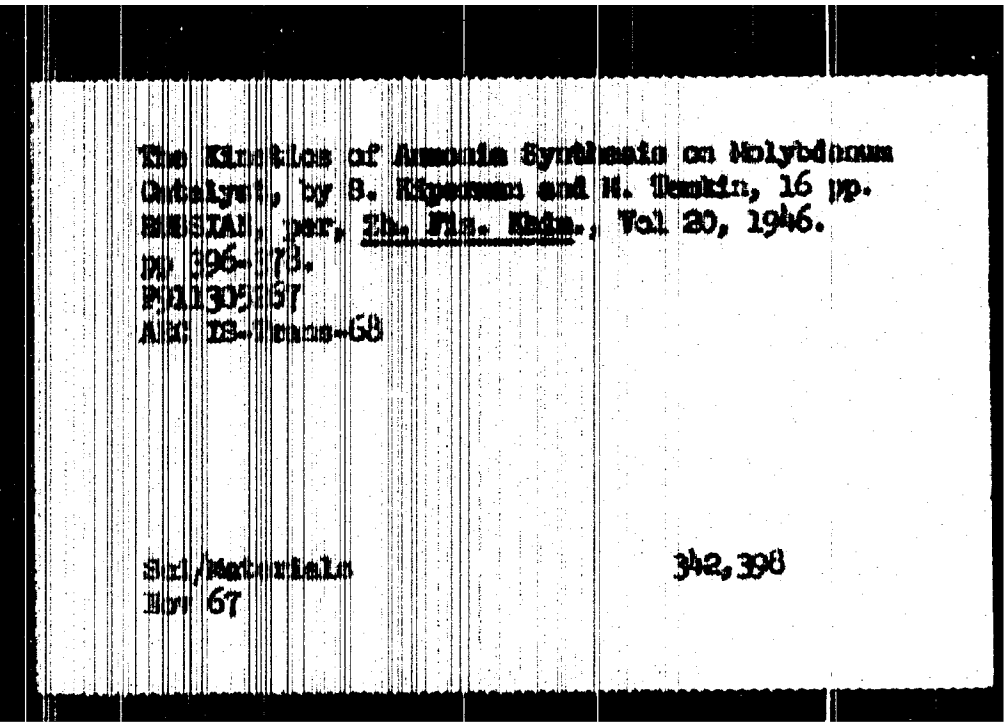
The Velocity of X Dissolution of XXX NaCl and KCl Crystals, by A. B. Zdanovskii, UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, 1946, Vol 20, No 4,5, pp 379-386.

Sci Mus Lib No 52/1944

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



The Kinetics of Ammonia Synthesis on Molybdenum Catalyst, by B. Kiperman and M. Temkin, 16 pp. RUSSIAN, per. Zh. Fiz. Khim., Vol 20, 1946.
pp 396-413.
PA 1305 67
AEC tr-1 trans-58

Sci/Materials
Apr 67

342,398

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Baranaev, M. K.
THE EVAPORATION OF SOLID BODIES, tr. by Ingeborg V. Baker. 16 May 63 [9]p. 10 refs.
RSIC-13. AD-404 919
Order from OTS or SLA $1.10 63-19563

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946, v. 20, p. 399-402.

DESCRIPTORS: Solids, *Ice, *Phenols, *Benzenes, *Camphors, Iodine, *Evaporation, Vapor pressure, Test equipment.

Measurements were performed on the accommodation coefficients for ice, solid phenol, solid benzene and camphor.

(Physics--Thermodynamics, TT, v. 10, no. 7)

63-19563

I. Baranaev, M. K.
II. RSIC-13
III. Army Missile Command, Redstone Arsenal, Ala.
IV. AD-404 919

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Vaporization of Solids, by M. K. Baranaev, 8 pp.

Full translation.

RUSSIAN, per: Zhur Fiz Khim, Vol XX, No 4-5, 1946, pp 399-402.

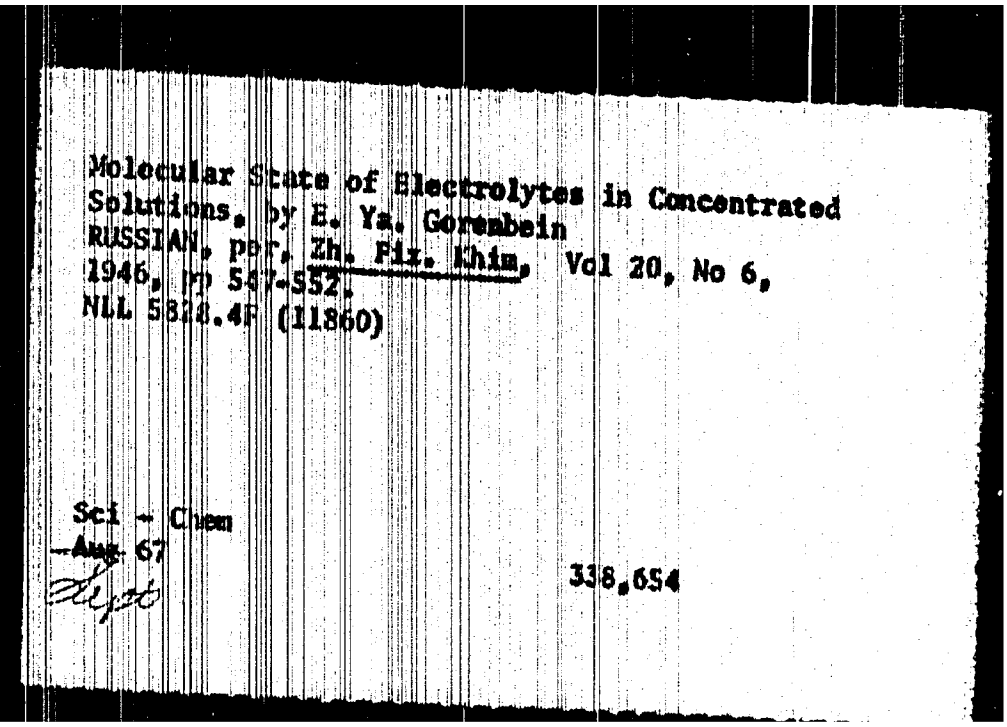
CIA/MCD/X-993

Scientific - Chemistry Aug 53 CTS/DRX

4578

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



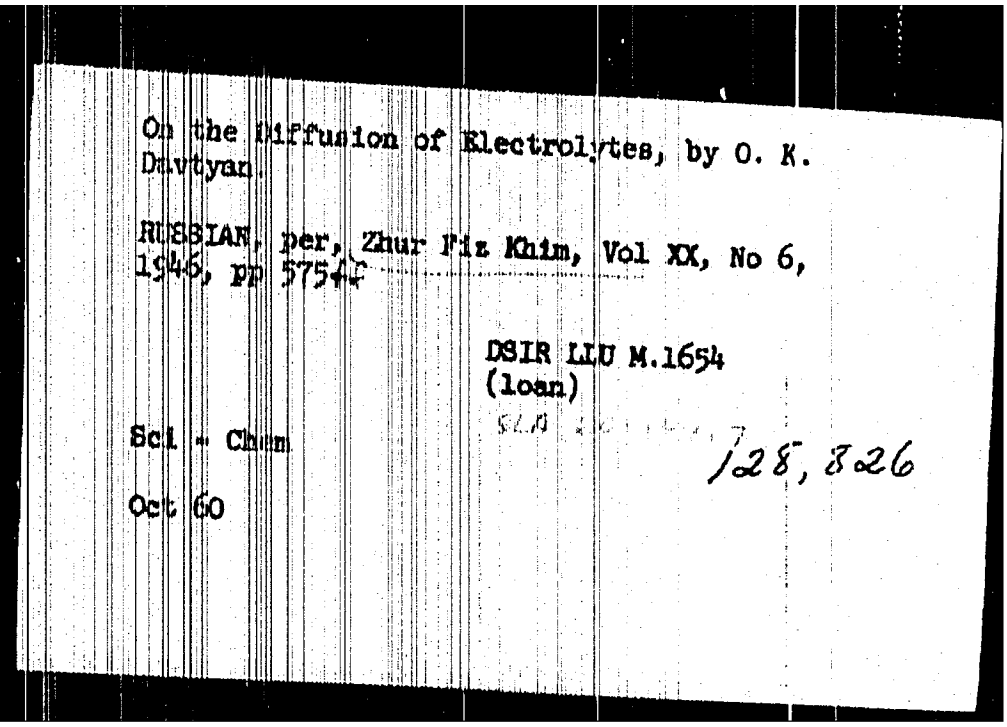
Molecular State of Electrolytes in Concentrated Solutions, by E. Ya. Gorenbein
RUSSIAN, per. Zh. Fiz. Khim, Vol 20, No 6, 1946, pp 547-552.
NLL 5828.4F (11860)

Sci - Chem
Aug 67

338,654

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



On the Diffusion of Electrolytes, by O. K. Davtyan.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 6, 1946, pp 575-[illegible]

DSIR LIU M.1654
(loan)

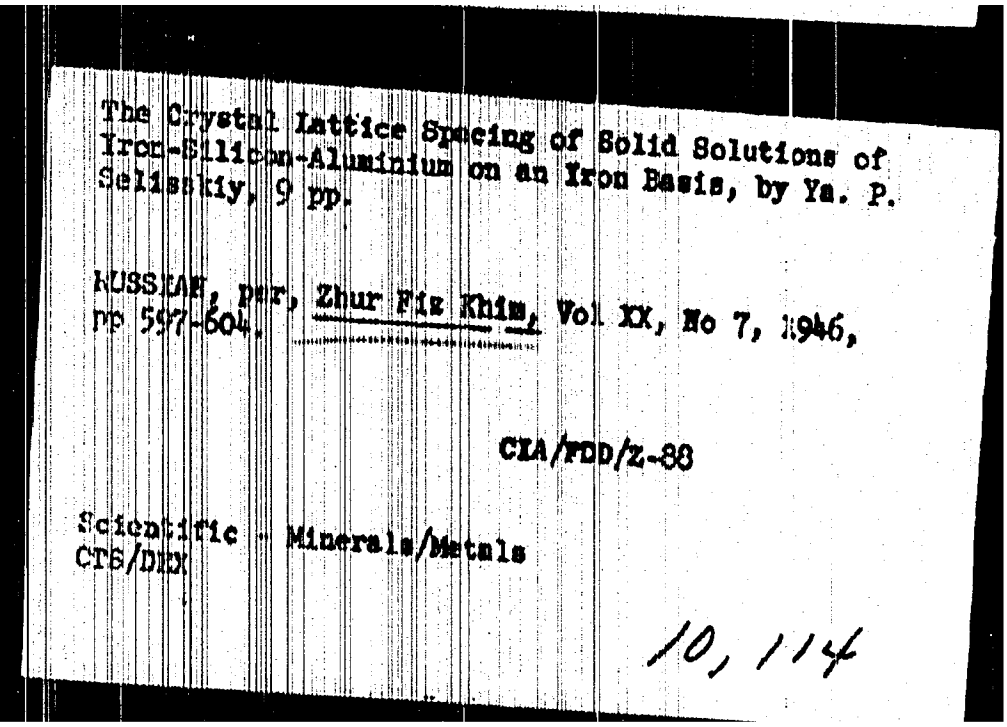
Sci - Chem

Oct 60

128, 826

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



The Crystal Lattice Spacing of Solid Solutions of Iron-Silicon-Aluminium on an Iron Basis, by Ya. P. Selisskiy, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 7, 1946, pp 597-604.

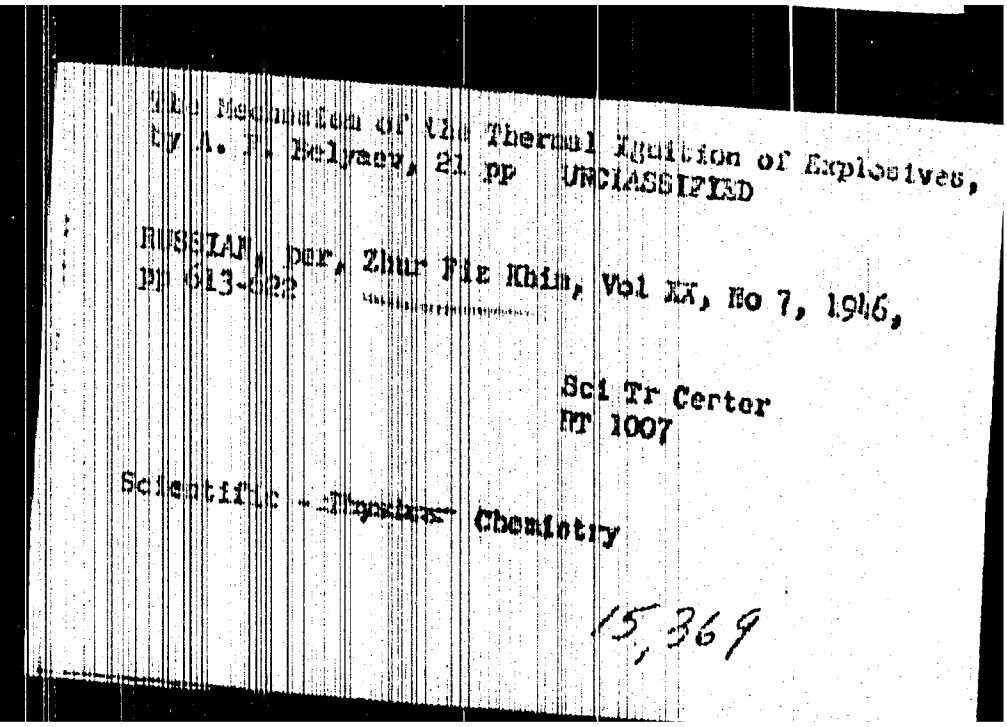
CIA/FDD/Z-88

Scientific - Minerals/Metals
CTS/DDX

10, 114

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



The Mechanism of the Thermal Ignition of Explosives,
by A. F. Belyaev, 21 pp UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 7, 1946,
pp 613-622

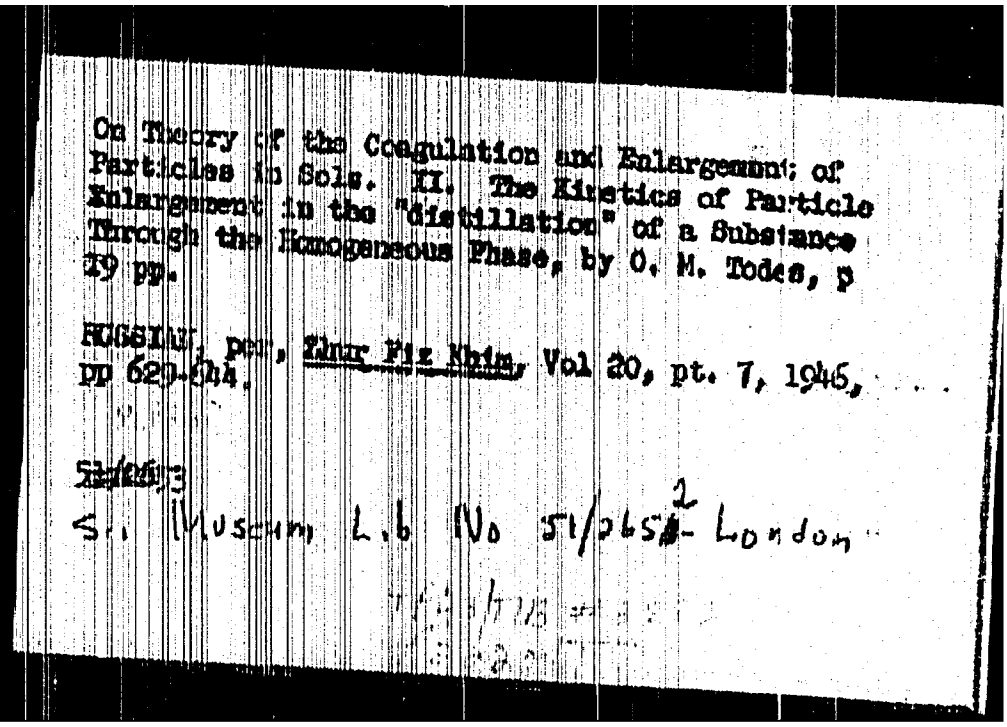
Sci Tr Center
MT 1007

Scientific - Physical Chemistry

15,369

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



On Theory of the Coagulation and Enlargement of Particles in Sols. II. The Kinetics of Particle Enlargement in the "distillation" of a Substance Through the Homogeneous Phase, by O. M. Todes, p 19 pp.

[illegible] pp, Zhur Fiz Khim, Vol 20, pt. 7, 1946, pp 629-644.

[illegible]

S. Museum, L.b No 51/265 2 London

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

On the Diffusion Potential of Real Electrolyte Solutions, by O. K. Davtyan.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, 1946, pp 645-647.

Dept of Interior
Tr No 197

Sci

Jan 53

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

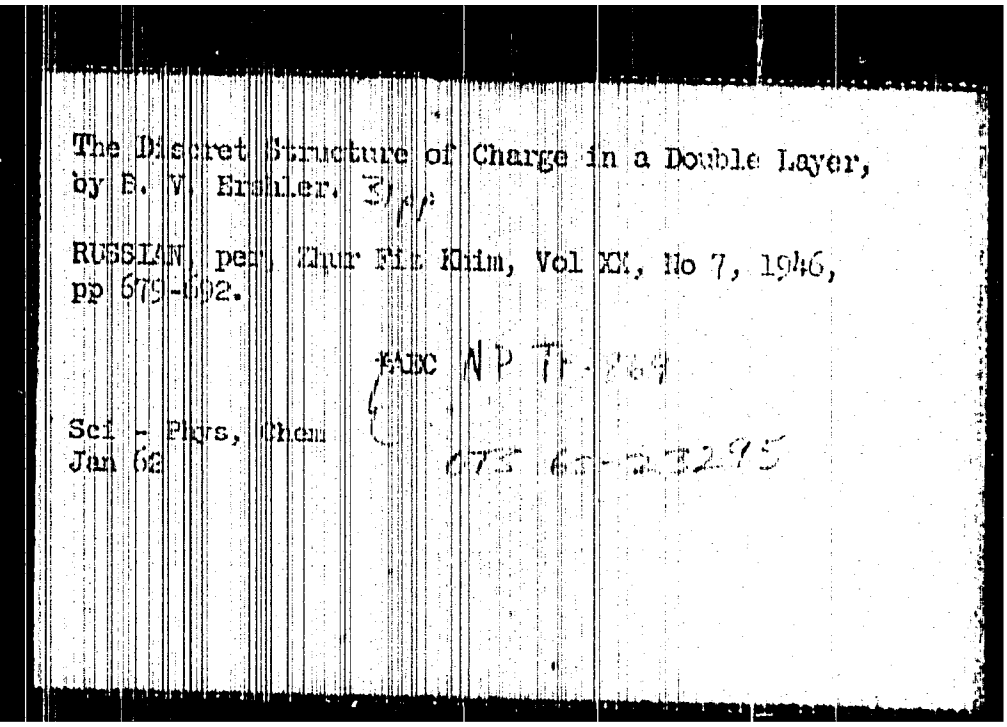
Investigation of the fall-off of hydrogen over-voltage at a spongy lead electrode in sulphuric acid, by Ia. M. Kolotyrkin, RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 20, 1946, No 7, pp 667-677
MLL RTS 3081
(ON LOAN OR PURCHASE)

Sci - Chem
May 67

325,862

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



The Discret Structure of Charge in a Double Layer,
by B. V. Ershler. 3p;

RUSSIAN, per Zhur Fiz Khim, Vol XX, No 7, 1946,
pp 679-692.

AEC NP Tr-264

Sci - Phys, Chem
Jan 62

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

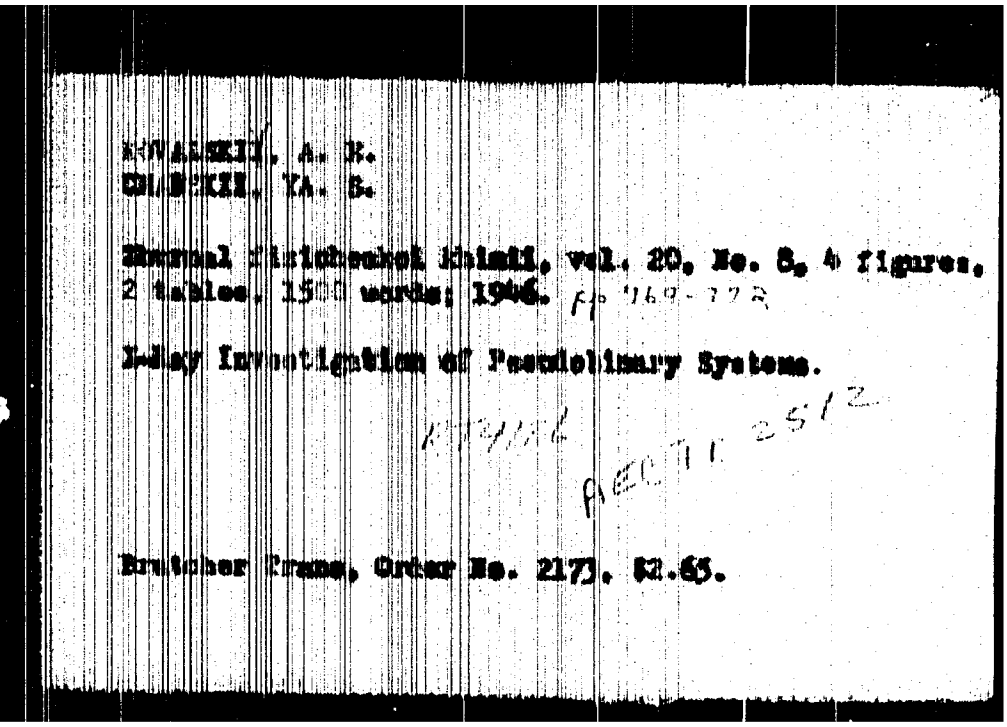
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Polarographic Study of Columbium-Nitric Acid Solution, by A. G. Stromberg, L. M. Reinus.
RUSSIAN, per. Zh. Fiz. Khim, Vol 20, No 7, 1946, pp 693-705.
NLL 5828.4F (11706)

Sci - Chem
Sept. 67 340,149

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



KIVALKII, A. K.
GLADKII, YA. B.

Zhurnal Fizicheskoi Khimii, vol. 20, No. 8, 4 figures, 2 tables, 1500 words; 1946. pp 969-972

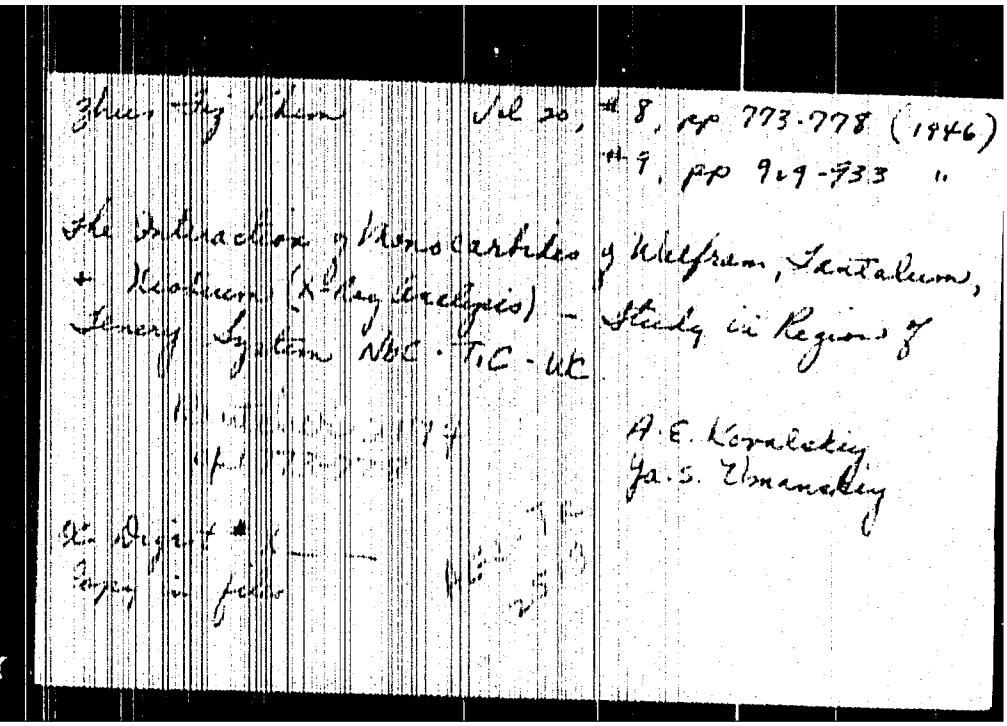
X-Ray Investigation of Pseudobinary Systems.

AEC TT-2512

Brutcher Trans. Order No. 217. $2.65.

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Absorption of Oxygen on Iron and the Effect of the Absorbed Oxygen on the Properties of Iron Electrode, by F. Burshtein, N. Shumilova, K. Gal'bert, 19 pp.

[illegible], per, Zhur. Fiz. Khim., Vol XX, No 8, 1946, pp 789-801.

Sci Trans Center
RT-2046

Scientific - Chemistry Feb 55 CSB/DEX

21,493

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Dependence of Viscosity of Pure Liquids Upon Temperature, by G. M. Panchenkov.
RUSSIAN, per, Zh. Fiz. Khim, Vol 20, No 8, 1946,
pp 811-833.
NLL 5828.47 (11822)

Sci - Chem
Aug. 47

38,645

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Role of the Interphase Solution in the Kinetics of the Solution of Salts, by A. B. Zdanovskiy, 14 pp.

RUSSIAN, Zur, Zhur Fiz Khim, Vol XX, 1946, pp 869-880.

SLA R-2791

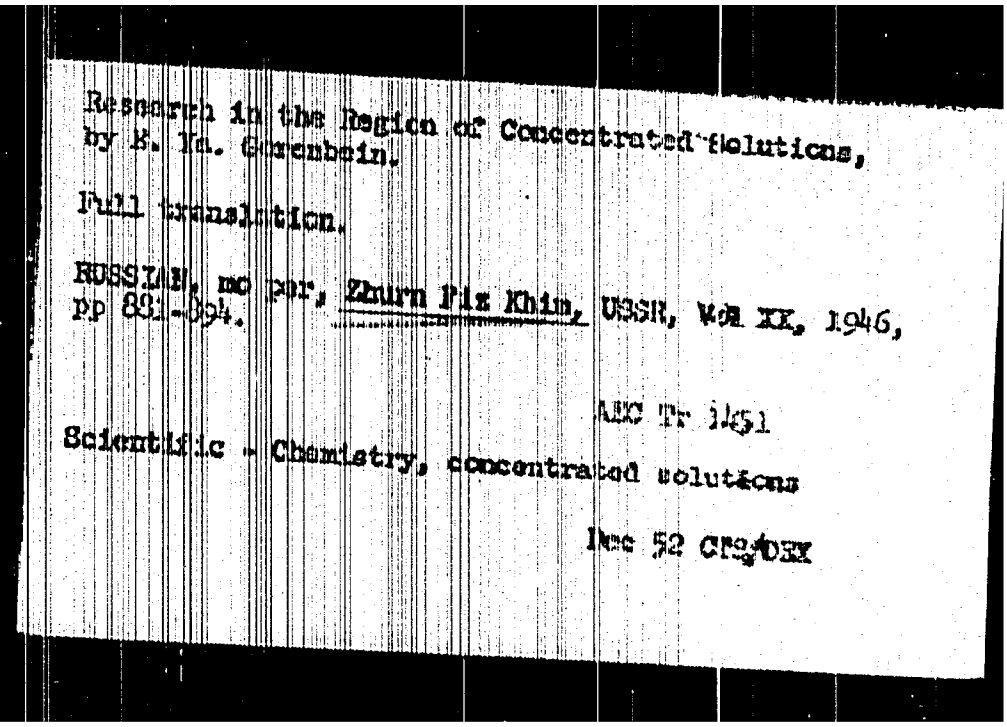
Sci

Jul 59

92,447

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Research in the Region of Concentrated Solutions,
by B. M. Gorenbein.

Full translation.

RUSSIAN, no pub, Zhurn Fiz Khim, USSR, Vol XX, 1946,
pp 881-894.

AEC Tr 1451

Scientific - Chemistry, concentrated solutions

Inc 52 CRS/DEK

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Diffusion of Electrolytes in Capillaries, by O. K. Davtyan.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 9, 1946, pp 1043-1047.

Assoc Tech Sv TR
$3.95

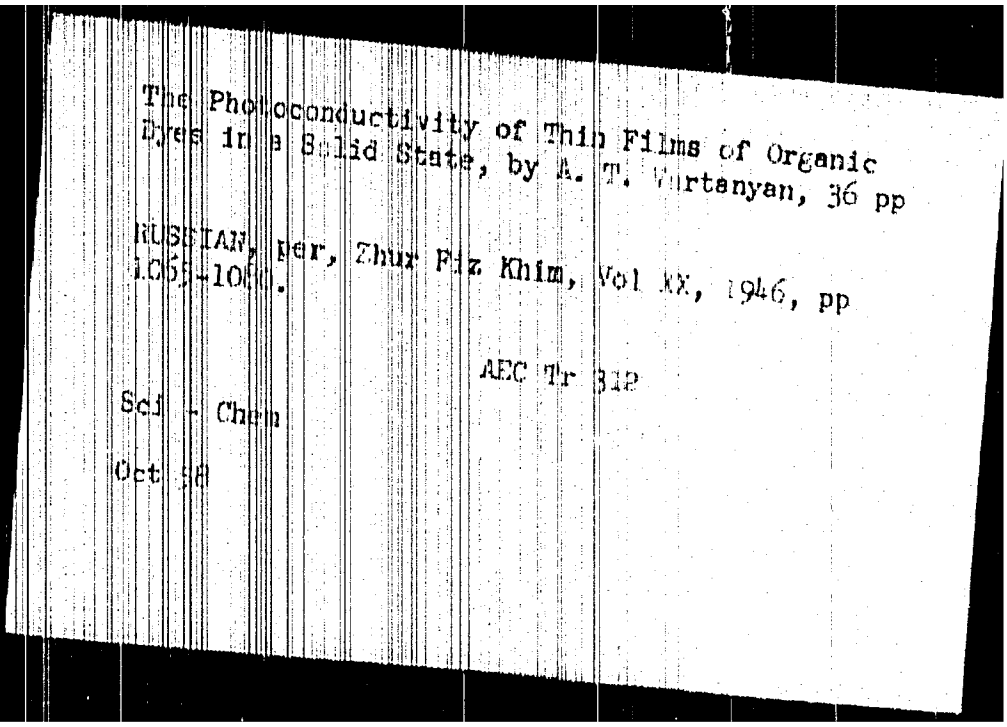
RJ 778

Sci - Physics
Aug 57

51-536

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



The Photoconductivity of Thin Films of Organic Dyes in a Solid State, by A. T. Vartanyan, 36 pp

RUSSIAN, Per, Zhur Fiz Khim, Vol XX, 1946, pp 1055-1060.

AEC Tr 312

Sci - Chem

Oct 48

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Catalytic Hydrogenation of Organic Compounds in the Liquid Phase, II. Kinetics of the Hydrogenation of Oleic Acid, by V. I. Goldanskiy, S. Yu. Elovich, 1 p.

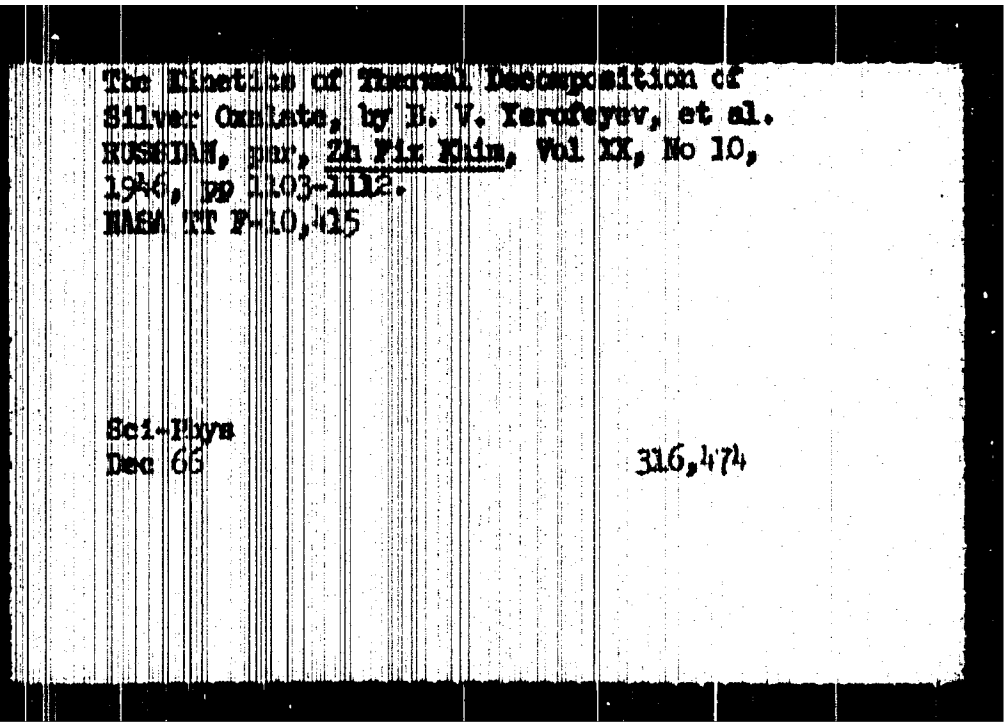
RUSSIAN, partial trans, per, Zhur Fiz Khim, 1946, Vol XX, pp 1085-1093.

SLA 59-20896

Sci
Mar 60
Vol 3, No 1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



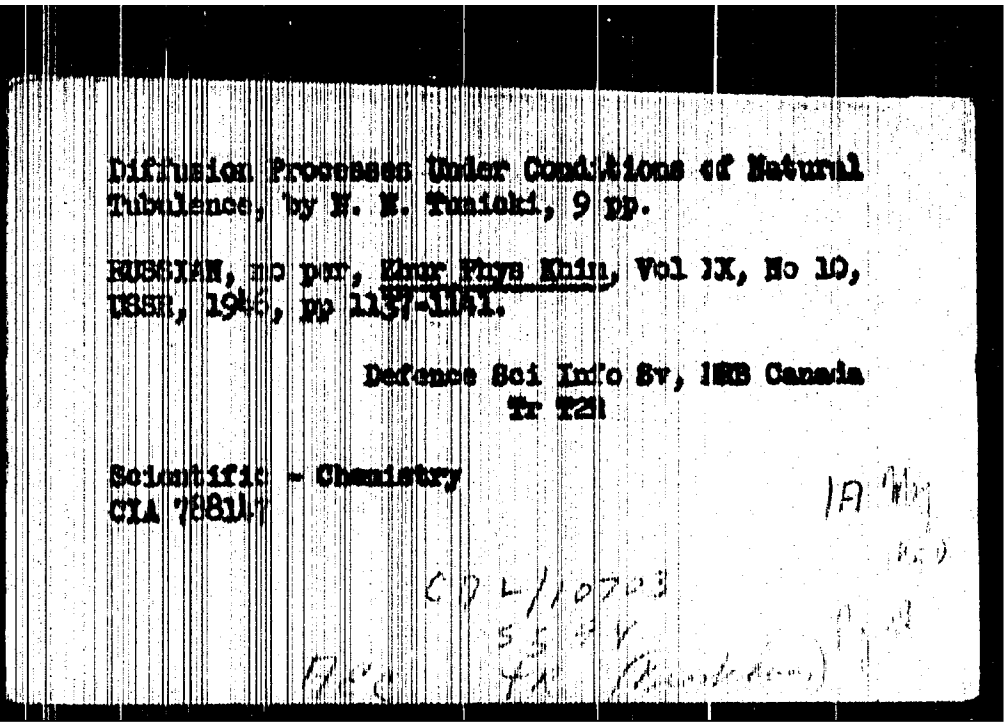
The Kinetics of Thermal Decomposition of
Silver Oxalate, by B. V. Yarotskyy, et al.
RUSSIAN, pam, Zh Fiz Khim, Vol XX, No 10,
1946, pp 1103-1112.
NAES TT F-10,425

Sci-Phys
Dec 66

316,474

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Diffusion Processes Under Conditions of Natural Turbulence, by F. K. Tuniolo, 9 pp.

RUSSIAN, no pur, Zhur Fiyz Khim, Vol IX, No 10, 1937, 19[illegible], pp 1137-1141.

Defence Sci Info Sv, DRB Canada
Tr T21

Scientific - Chemistry
CIA 78811

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

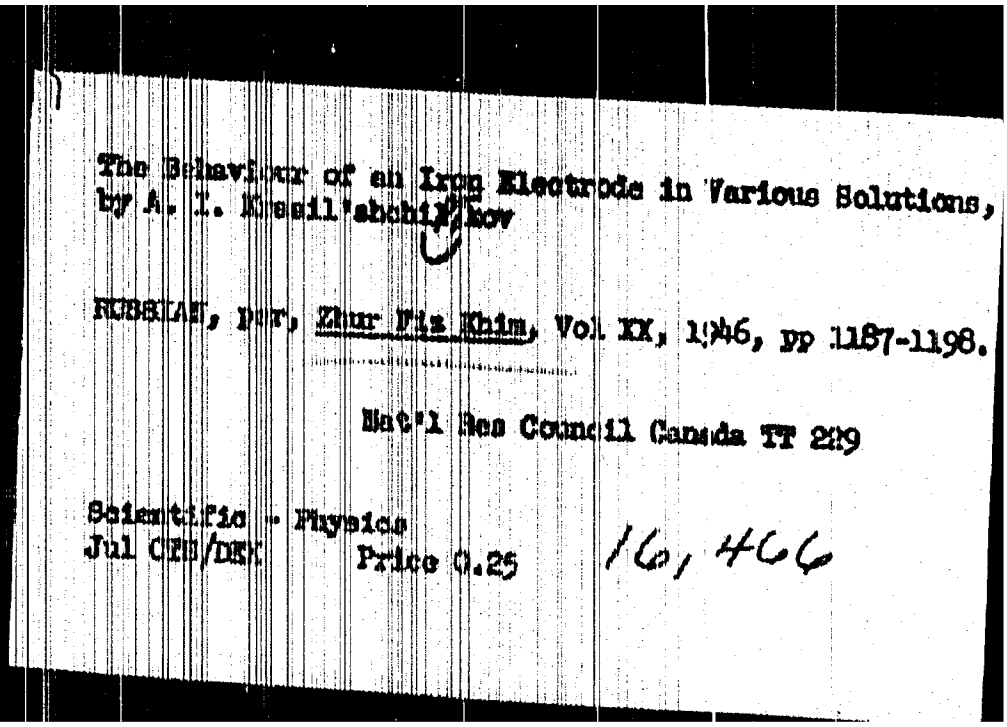
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Effective Forces as a Basis for the Classification of Solutions, by V. K. Semenchenko.
RUSSIAN, per. Zh. Fiz. Khim, Vol 20, No 10, 1946, pp 1149-1160.
NLL 5828.4 (11824)

Sci - Chem
Sept. 47 340,147

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



The Behavior of an Iron Electrode in Various Solutions, by A. T. Kissil'shchikov

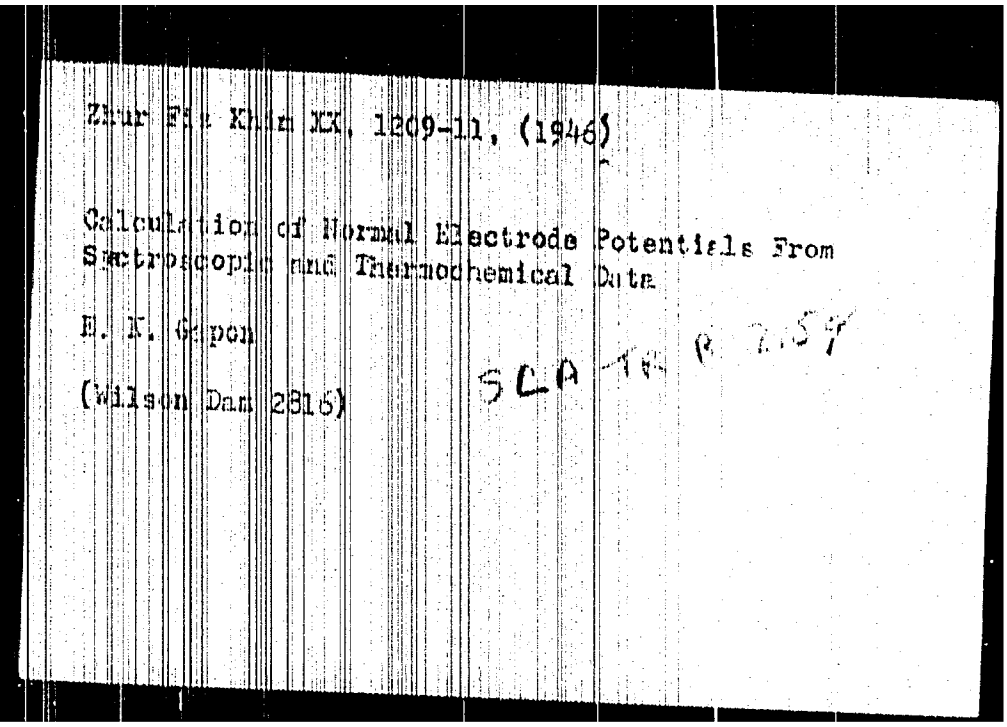
RUSSIAN, pub, Zhur Fiz Khim, Vol XX, 1946, pp 1187-1198.

Nat'l Res Council Canada TT 219

Scientific - Physics
Jul CFH/DEK Price 0.25 16,466

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



Zhur Fiz Khim XX, 1209-11, (1946)

Calculation of Normal Electrode Potentials From Spectroscopic and Thermochemical Data

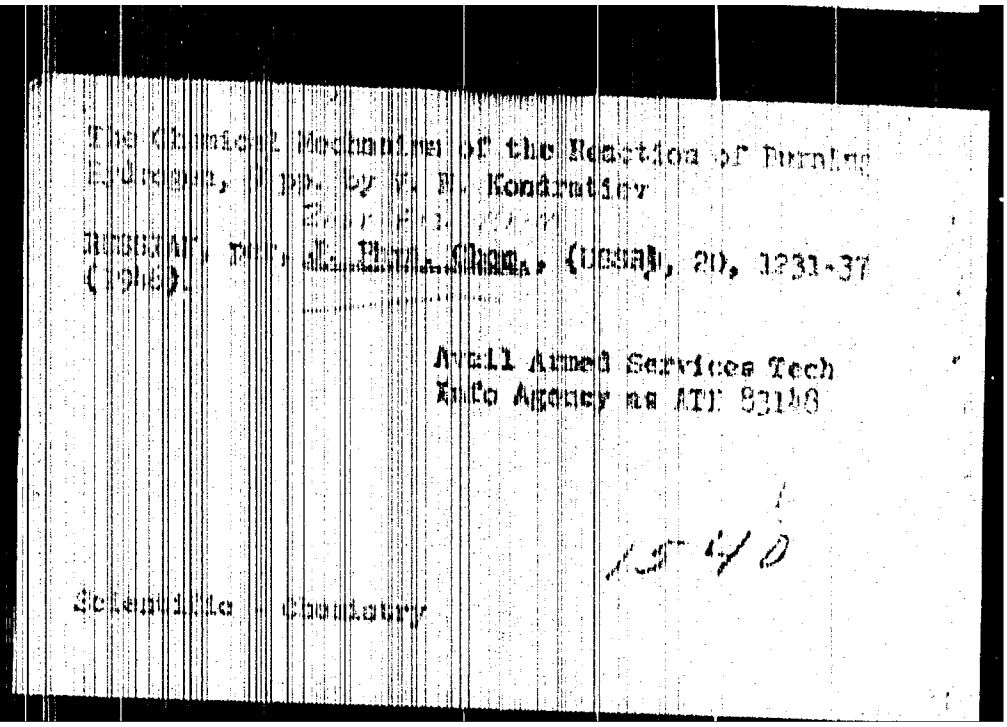
M. K. Gapon

(Wilson Dam 2816)

SLA-TR

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



[illegible] Mechanism of the Reaction of Burning
[illegible], by V. N. Kondratiev
[illegible], (USSR), 20, 1231-37

Armed Armed Services Tech
Info Agency as ATI 93148

Declassified - Unclassified

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Catalytic Recombination of Active Centers as Applied to Measurement of Their Concentration in the Zone of the Reaction, 13 pp. by E. I. Kondratieva and V. N. Kondratiev

RUSSIAN, per. Zh. Fiz. Khim. 20, 1239-47, (1946)

Avail Armed Services Tech Agency Info as ATI 83148

1534

Scientific - Chemistry, Physics

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Measurement of the Coefficient of the Atomic Hydrogen Recombination at Various Surfaces by the Method of Determination of the Lower Ignition Limit of the $2H_2 + O_2$ Mixture, 15 pp. by A. B. Nalbandian and S. M. Shubina

RUSSIAN, per, Zh. Fiz. Khim. (USSR), 20, 1249-58, (1946).

Avail Armed Services Tech Infor Agency as ATI 83148

1535

Scientific - Chemistry, Physics

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Zhur Fiz Khim Vol 20, page 1259-82 (1946)

The Photochemical Oxidation of Hydrogen. II. Reaction at High Temperatures. III. Theory of Interaction of Chains. By A. B. Nalbandyan.

AEC Trans (avail. Brookhaven)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

[redacted]

The Thermochemical Oxidation of Hydrogen II. Reaction at High Temperatures, 20 pp. by A. B. Nalbandian

[redacted], pp. 1259-72 (1948).

Avail Armed Services Tech Info Agency as ATI 83148

Scientific - Chemistry, Physics

15 45

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Photochemical Oxidation of Hydrogen III a Contribution to the Theory of the Interaction of Chains, 14 pp. by A. B. Malbandian

RUSSIAN, pub. J. Phys. Chem. (USSR) 20, 1273-82 (1946)

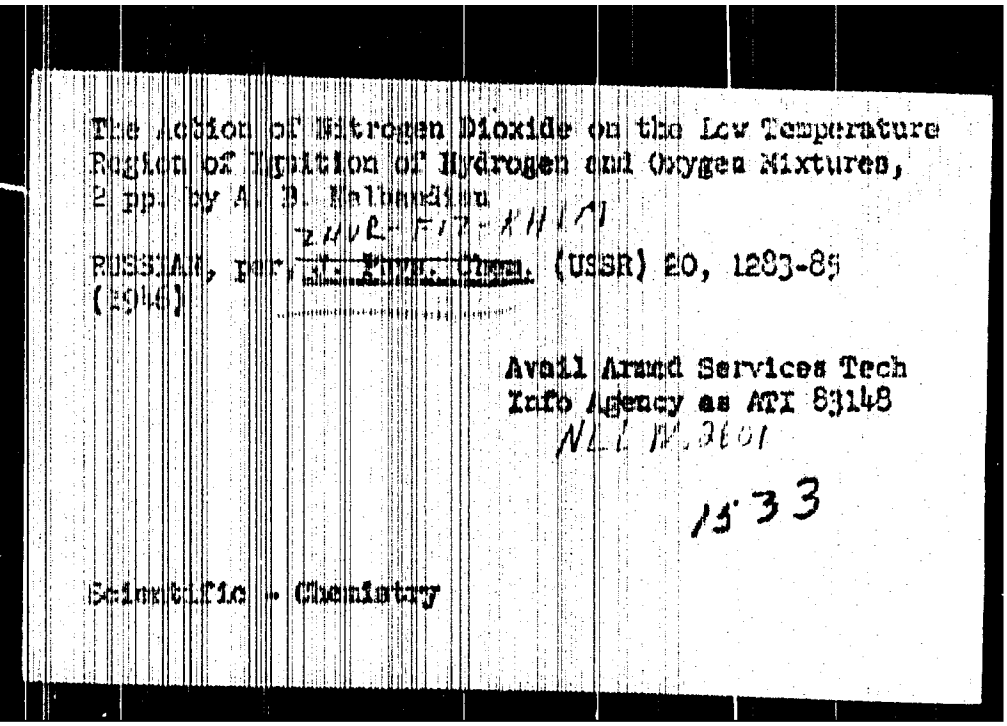
Avail Armed Services Tech Info Agency as ATI 83143

15-43

Scientific - Chemistry, Physics

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3



The Action of Nitrogen Dioxide on the Low Temperature Region of Ignition of Hydrogen and Oxygen Mixtures, 2 pp. by A. B. Kalmykova

RUSSIAN, Zhur. Fiz. Khim. (USSR) 20, 1283-85 (1946)

Avail Armed Services Tech Info Agency as ATI 83148

NRL M-3601

1533

Scientific - Chemistry

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Limiting Diameters of a Stable Detonation
of a Mixture of Hydrogen Peroxide with
Methyl Alcohol and Perchloric Acid with
Ethyl Alcohol, by R. Kh. Kurbangalina,
3pp.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii,
Vol 22, 1948, No 1, pp 49-51.
CFSTI TT-64-19353.

323,215

Sci - Chemistry
Apr 65

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

On the Polyene Absorption Spectra Relationship Between Structure and Position of the Absorption Maximum, by G. V. Troitskii.
RUSSIAN, Zh. Fiz. Khim, Vol 22, No 10, 1948, pp 1164-1171.
NLL 5828.3F (11712)

Sci - Chem
Sept. 67 340,143

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Slow Initiation of Hydrogen and the Third Ignition Limit, 21 pp. by V. V. Voododsky

RUSSIAN, [illegible] Zhur. Fiz. Khim. (USSR), 20; 1285-98. (1946).

Avail Armed Services Tech Info Agency as ATI 83148

1525

Scientific - Chemistry, Physics

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Thermal Reaction of Acetylene, by E. A. Bliumberg, D. A. Frank-Kamenetskii, 30 pp.

RUSSIAN, per, Zhur. Fiz. Khim., Vol XX, No. 11, 1946, pp 1301-1317.

SLA Tr R-1228

Sci

Jun 58

65, 895

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Thermal Reactions of Acetylene. III. Kinetic Theory of Acetylene Formation in the Thermal Decomposition of Methane, by N. N. Semenskiy, D. A. Frank-Kamenetskiy, 6 pp.

Zhur. Fiz. Khim.

RUSSIAN, Pr, Vol XX, No 11, 1946, pp 1319-1323.

Docc Tech Serv 09716

PTS RT-534

TIA 53-1170

Jul 58

70,009

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Bogoyavlenskaya, M. L. and Kovalskii, A. A.
CONCERNING THE INITIATION OF HOMOGENEOUS GAS REACTION BY SOLID CATALYSTS. [1961] 16p. 12 refs. [DSIR LLU] M.2602
Order from OTS or SLA $1.60 61-23775

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946, v. 20 [no. 11] p. 1325ff.

DESCRIPTORS: *Gases, *Chain reactions, Starting, Catalysts, Chemical reactions, Solids.

(Chemistry--Physical, TT, v. 6, no. 4)

61-23775

I. Bogoyavlenskaya, M. L.
II. Kovalskii, A. A.
III. DSIR LLU M.2602

17771

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

Avramenko, L. I., Gerber, M. I., Neiman, M. B., and Shushunov, V. A.
A KINETIC METHOD OF PHYSICO-CHEMICAL ANDLYSIS. I. KINETICS OF REACTION BETWEEN LEAD-SODIUM ALLOYS AND ETHYL CHLORIDE VAPORS. [1963] [30] (3 figs, omitted) 15refs
Order from CTS or SLA $2.60 63-18238

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1946, v. 20, no. 11, p. 1357-1358.

DESCRIPTORS: *Reaction kinetics, *Lead alloys, *Sodium alloys, *Ethyl radicals, *Chlorides, Vapors, Catalysis

(Chemistry - Physical, TT, v. 10, no. 11)

63-18238

1. Title: Ethyl chlorides
2. Title: Tetraethyl lead
I. Avramenko, L. I.
II. Gerber, M. I.
III. Neiman, M. B.
IV. Shushunov, V. A.
V. Title: Kinetics, . .

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

(NY-4882/5)

Combustion of Methyl Nitrate Vapors, by Ya. B. Zel'dovich, Yu. Kh. Shmulov, 13 pp.

[illegible], [illegible], Zhur Fiz Khim, Vol XX, No 11, 1946, pp 1359-1362.

JPRS 7044

Sci - Chem

Dec 60

134, 195

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

(NY-4842)

The Thermal Decomposition of Barium Azide at Pressures Up to 45,000 Kg/cm², by Yu. N. Ryabinin, 9 pp.

RUSSIAN, per: Zhur Fiz Khim, Vol XX, 1946, pp 1363-1366.

JPRS 7389

Sci - Chem

Jan 61

135, 712

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3

The Effect of Physical Structure and State of Aggregation on the Sensitivity of Explosives, by A. Ya. Apin, V. K Dobolev, 4 pp.

Russian, pub., Zhur Fiz Khim, Vol XX, 1946, pp 1367-1376.

ASTIA 9781
OTS 61-26504

Dal .. Phys

Dec 49

98,901

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660036-3